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CHEMIST and DRUGGIST SEPTEMBER 27, 1947

The CHEMIST AND DRUGGIST

for RETAILER - WHOLESALER - MANUFACTURER

ished 1859 28 Essex Street, Strand, London, W.C.2. Registered as a Newspaper

3527 CXLVIII SEPTEMBER 27, 1947 Annual Subscription (with Diary) 30/-. Single Copies 1/-

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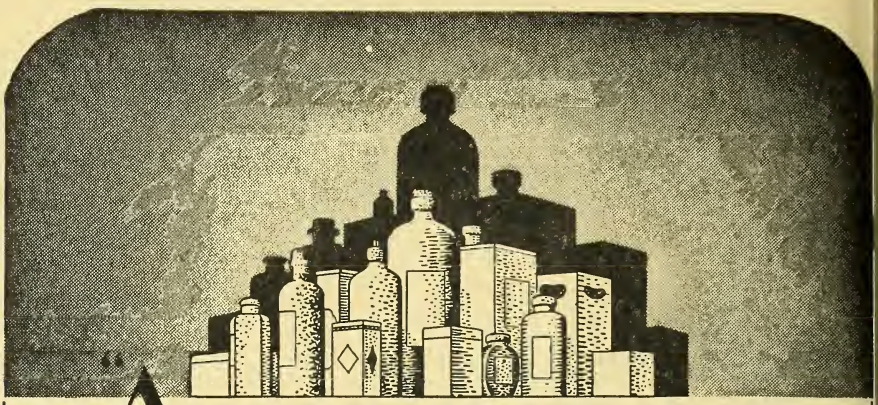

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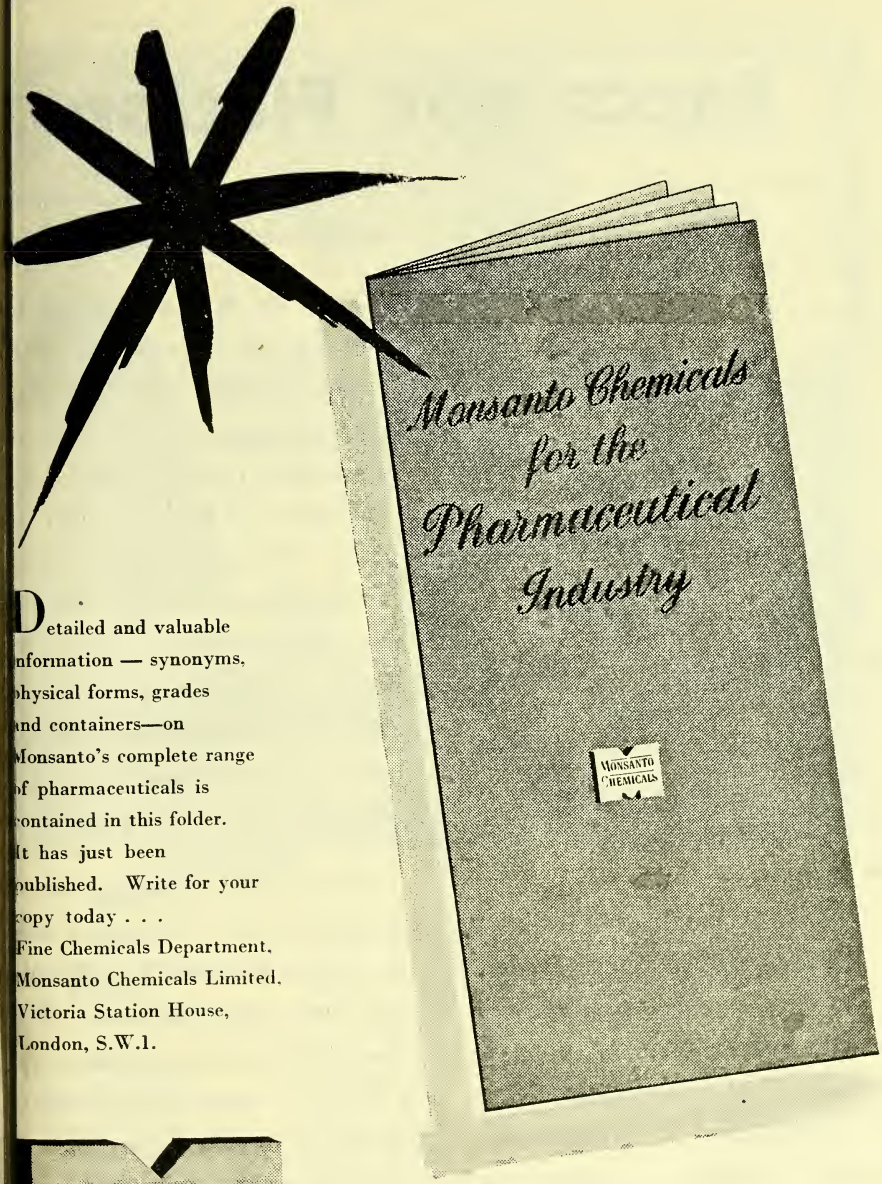

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Success in business depends on human judgment. Sometimes it is difficult to form a sound judgment because the evidence is insufficient. So the more facts that one can gather on which to base judgments, the less the margin of possible error.

It is for this reason that we at Simpson's maintain a kind of 'intelligence department' which gathers business facts by means of routine market investigations carried out by independent research organisations whose workers never know for what product the research is being made.

We've just received one such report. It contains pages of statistics—too long to quote. A summary is also included which gives the gist of the report's findings. It opens with these words: "*Simpson's Foot Ointment undoubtedly leads the market.*" In other words Simpson's Foot Ointme outsells every other foot preparatio

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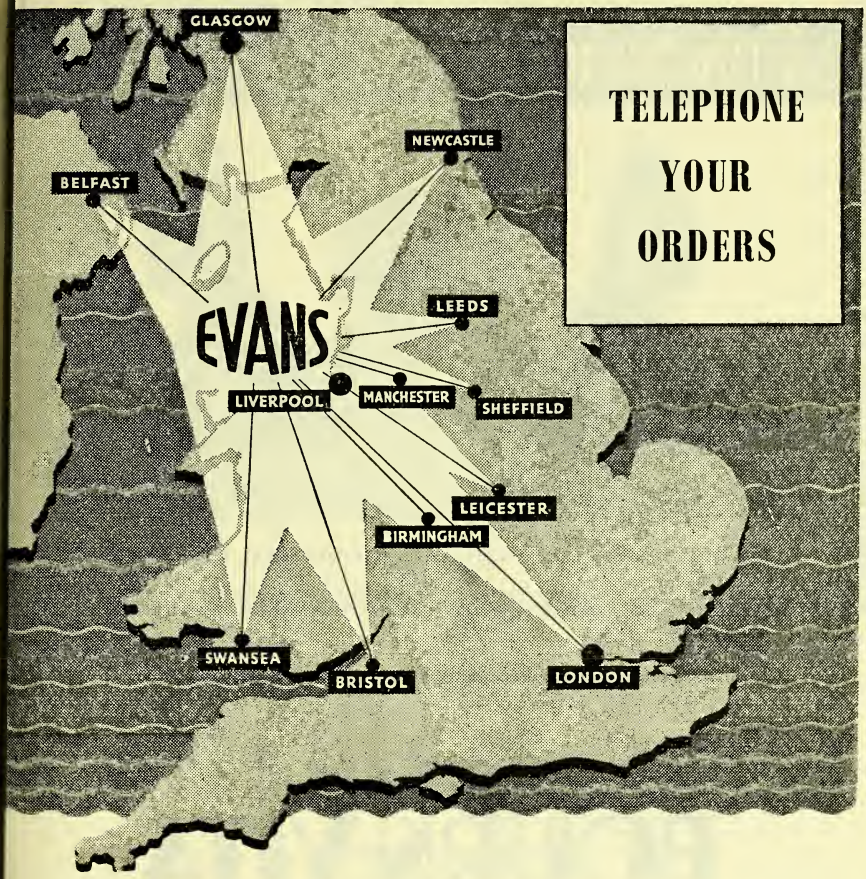

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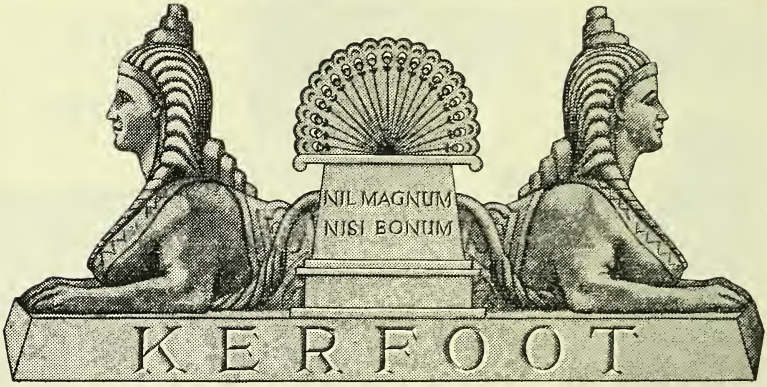

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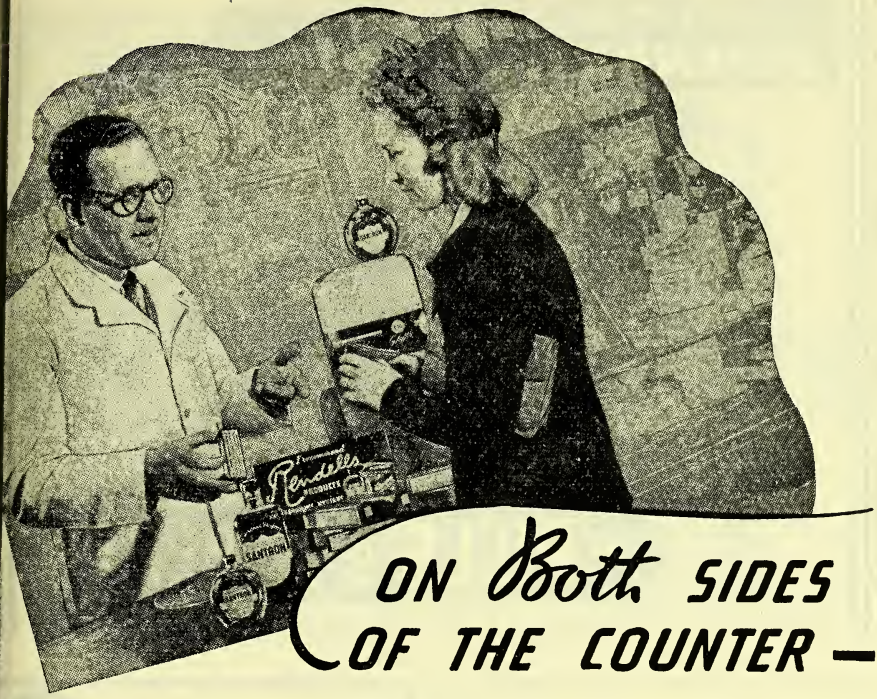

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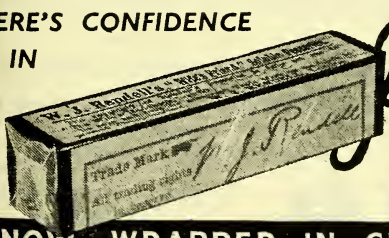

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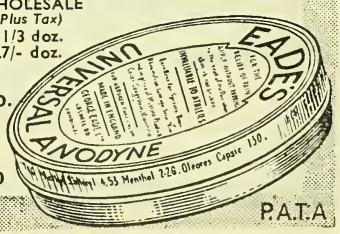

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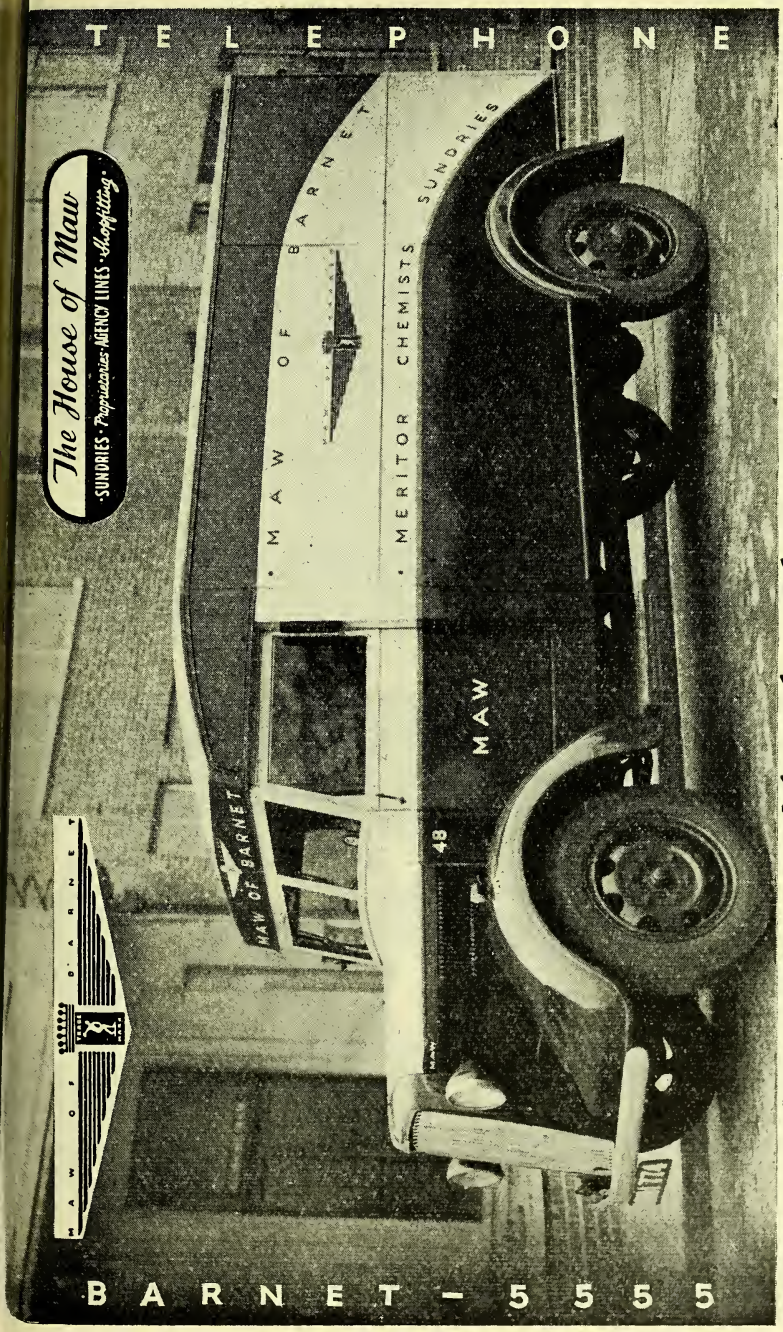

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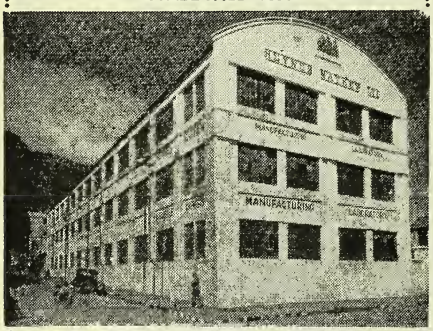

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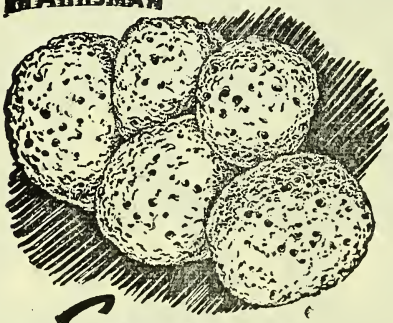

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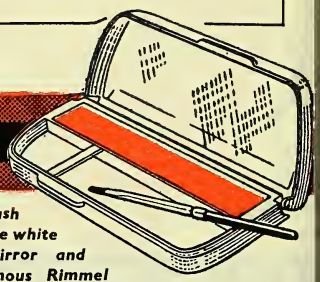

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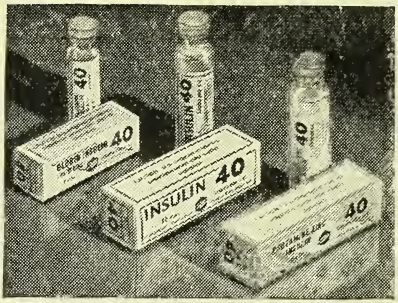
PLASTERS

The Central Price Regulation Committee have approved new trade prices which will operate as and from October 1st. 1947. New Price Lists will be issued by the firms concerned at the earliest possible date. Kindly note retail prices have been established for all public lines. All orders or balances outstanding on that date will be charged at the new rates operating unless cancelled.

Edward Taylor Ltd.
Herts Pharmaceuticals Ltd.
Leslies Ltd.
William Mather Ltd.
T. J. Smith & Nephew Ltd.
Cuxson Gerrard & Co. Ltd.
Johnson & Johnson (Gt. Brit.) Ltd.
A. de St. Dalmas & Co. Ltd.



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Purity, potency and reliability are assured when the prescription specifies . . .

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Enquiries should be made to the
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D.C.L. VITAMIN B_1 YEAST TABLETS

Each ounce contains a natural Vitamin B potency equivalent to that of 25 mgm. Aneurin Hydroc loride, 1·4 mgm. of Riboflavin, and 8·0 mgm. Nicotinic Acid.
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HIGH QUALITY COSMETICS
Foundation Cream, Complexion Cream, Skin Food, Cold Cream, Lipsticks, Face Powders, and Perfumes, etc.
Also our well-known NASTANT INHALANT *for*
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You've probably sold thousands of them, but did you know there is, in addition to this reputable line, a very comprehensive range of beauty products bearing this famous name.

THE WIDE RANGE OF

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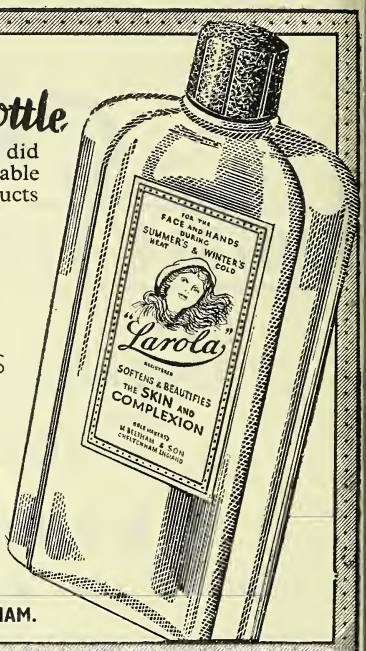

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VALVES AND CUSHION COMFORTERS

J. ALLEN AND COMPANY
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The Warehouses of Cresswell Brothers and Marks.

We have warehouses at Ægina, Greece, and are represented at all major centres of the Sponge Industry throughout the world. Let us record your name for earliest possible delivery of "RELIANCE" SPONGES & CHAMOIS LEATHERS.

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'PHONE GULLIVER 5462-3 'GRAMS SPONGE, NORWEST, LONDON

TWO NEW "D.D.T." PREPARATIONS

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HOUSEHOLD INSECTICIDE SPRAY
AND DUSTING POWDER

SPRAY: A combination of "D.D.T." (Geigy) with its killing power of prolonged duration and Pyrethrum with its immediate action, in Hydrocarbon Oils.

1 pint tins Retail	3/- each	...	25/- doz.
2 „ „ „	5/- „	...	40/- „
1 gallon tins „	16/6 „	...	11/- each

DUSTING POWDER: A "D.D.T." Preparation for household and horticultural use. Packed in Sprinkler Containers.

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Mothers need BOTH to keep their babies happy and protected!
Ycu know all about BABY POWDER: here are some facts about BABY LOTION:—

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An emulsion of specially compounded mineral oil, lanolin and water which agrees perfectly with a baby's skin.

what* BABY LOTION *advantages are
A gentle but effective antiseptic gives protection against surface bacteria. Thoroughly homogenized to allow the skin to "breathe".
Not sticky or messy; will not spoil baby's clothes.

what* BABY LOTION *does
Gives waterproof protection against urine and prevents nappie irritation.
Soothes chapped, chafed areas and relieves soreness.

when* BABY LOTION *should be used
After every nappie change and for "tubless" baths.
Can also be used whenever there's a suspicion of soreness.

Mothers won't be able to resist the appeal of these mother-come-hither display pieces. Show them prominently to make Baby Lotion the best-seller that Baby Powder already is.

JOHNSON & JOHNSON (GT. BRITAIN) LTD., SLOUGH & GARGRAVE

Re-introducing
PERFUMES BY THE HOUSE OF Mury PARIS

For the present—only a very small allocation—we'll share this fairly amongst our customers but we hope larger supplies will soon be available.

(DEPT. A) Madelox Limited
Sole Distributors for the British Isles
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GLEIM SHAMPOO

IN

"PENNY PACKETS"

(U)

GLEIM SHAMPOO COMPANY—NEWBURY

OMPELLING ADVERTISING WITH A TOPICAL THEME KEEPS 'KEPLER' *in the news!*

he vigour of this advertising can ardly fail to stir the imagination f mothers—especially at this time, hen they are more than ever onscious of the need of the right food extras' for their children. They can read the KEPLER message in the national press, the best provincial papers, the big-circulation journals and the women's magazines. *Also in your shop* if you display the new KEPLER window- and counter-cards. Ask our representative about them—they have a compelling attractiveness that leads to sales on the spot.

Two sizes **3/3** *and* **5/9**

BURROUGHS WELLCOME & CO. (*The Wellcome Foundation Ltd.*)
12, Red Lion Square, London, W.C.1. *Telephone: Chancery 6621*

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ESTABLISHED 1794

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"QUINOLOR"

TRADE MARK BRAND

Compound Ointment

Tissue-repair promoting Antiseptic

An ointment of proved value in staphylococcal infection, particularly good results are to be obtained in sycosis barbae, sycosis vulgaris and tinea sycosis. "Quinolor" possesses noteworthy qualities for promoting tissue repair and affords an excellent dressing for cutaneous affections and superficial lesions

MARTINDALE

"E·S·T·P"

TRADE MARK BRAND

Ether-Soluble Tar Paste

An advance in coal tar therapy. Of particular value in eczema of all forms.

"MORYL"

TRADE MARK BRAND

Carbachol

Powerful parasympathetic stimulant.

"TETRONOX"

TRADE MARK BRAND

Tablets

Reliable, hypnotic and sedative.

MARTINDALE

"STERULES"

TRADE MARK BRAND

Wide range of products for injection.

"Dr. JENNER'S ABSORBENT LOZENGES"

TRADE MARK BRAND

Digestive Tablets

Famous for 150 years for indigestion.

"MEDILAX"

TRADE MARK BRAND

Laxative Pellets

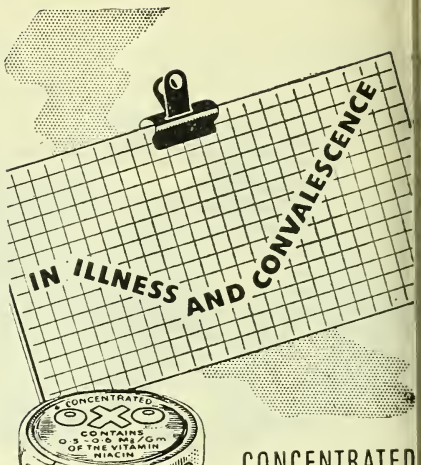
Something more persuasive.

Full details on request to :—

Savory & Moore, Ltd.

Chemists to The King

Lawrence Road, Tottenham, N.15
or Wm. Martindale, 50, Wigmore St., W.1



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OXO

PLAYS A VALUABLE PART

Concentrated OXO has a high content of the important vitamin Niacin.

Patients welcome its delicate flavour and react favourably to the energising effects of this highly concentrated preparation of Beef Extract and Beef Protein.

Economical, and quickly prepared as a beverage, concentrated OXO is also recommended for invalid cooking

Supplied by Chemists.

Chemist and Druggist *September 27, 1947*

The

CHEMIST AND DRUGGIST

For RETAILER—WHOLESALER—MANUFACTURER

blished weekly at 28 ESSEX STREET, STRAND, LONDON, W.C.2

Telegrams : " CHEMICUS, ESTRAND LONDON." *Telephone: CENTRAL 6565 (10 lines)*

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NEWS OF THE WEEK

Poliomyelitis Figures.—The number of ases of poliomyelitis notified in England nd Wales during week ended September 3 was 572, against 662 the previous week.

Flavouring Essences Decontrolled.—'he Minister of Food has made an Order evoking the Flavouring Essences (Current 'rices) Order, 1943. From September 23 ne selling prices of flavouring essences are o longer subject to control.

Chewing of Coca Leaves.—A commission of inquiry, including a number of loctors, a psychiatrist and an expert in industrial hygiene, is to visit Peru shortly, under the authority of the United Nations Commission on Narcotic Drugs, to study the effects of the habit of chewing coca leaves.

Small Manufacturers' Export Plans.—A deputation representing the National Union of Manufacturers presented to Sir Stafford Cripps (President of the Board of Trade) on September 9 suggestions for helping small manufacturers to play a more effective part in export trade by collective action. The deputation urged that controls, which should be exercised only when really needed, should be administered with the minimum of form-filling and in active co-operation with organised industries. A statement issued later by the Board of Trade said the delegation's representations had been " sympathetically considered."

Conference on Market Research.—The Manchester Joint Research Council is holding on October 22 a full-day conference for the consideration and discussion of three papers on various aspects of market research. The titles and speakers are " The Technique and Applications of Market Research," by Mr. O. W. Roskill; " The Investigation of Trends of Consumer Tastes," by Mr. H. D. Willcock; and " Market Research and the Seller," by Mr. D. S. F. Vernon. Discussion will follow each paper. The conference will be private. Forms of application to join the Association are available from the Manchester Chamber of Commerce, P.O. Box 559, Manchester, 2.

Production Methods in Germany.—Methods of packaging and tableting in German pharmaceutical works are the sub-

ject of British Intelligence Subcommittee Report No. 1422, recently issued by H.M. Stationery Office, price 2s. 6d. The report is based on visits to some fifteen pharmaceutical factories. It states that mechanical packaging aids seem to have been ignored by German pharmaceutical manufacturers, and suggests that the reasons are the availability of adequate hand labour and "the generous allocation of floor space to this form of packaging." In general, a product was put up in only one size and pack, thus streamlining production, and effecting an economy in scarce packing materials. No new developments were revealed in tablet-compressing machinery, but favourable comment is made on the layout of tablet-making rooms, especially at I.G. Farbenindustrie, Leverkusen, and E. Merck, Darmstadt

Chemists Federation.—A meeting of the Chemists Federation Council was held on September 12, with Mr. W. J. Tristram (president) in the chair. The recommendations contained in a report of a meeting of the C.F. Propaganda Committee held the previous day were approved and adopted. Details were received of the response by manufacturers and wholesalers to an appeal for the Propaganda and Publicity Fund. The secretary reported that 500 labels for attaching to C.F. display material had been sent to each C.F. manufacturer and that orders had been received for a further 70,000. A report of the work undertaken by the outdoor representative was received. The Council adopted a recommendation of the Propaganda Committee that, unless exceptional circumstances prevailed, new applications for wholesaler membership of the Federation should be accepted only from those wholesalers whose business was conducted exclusively with chemists. Four applications for wholesaler membership were considered. Two were refused and the following accepted:—Thomas Robinson Manufacturing Chemists, Ltd., Boundary Street East, Manchester, 1, and Southern Utilities, Ltd., 729 Christchurch Road, Bournemouth. A report of a meeting of the C.F. Standards Committee held the previous day was received and its recommendations adopted. The Council considered three applications for manufacturer membership and one application for an addition to the schedule of a C.F. agreement. All the applications were deferred to enable the secretary to discuss with the manufacturers concerned the claims made for their products.

LOCAL NEWS

Executive Councils.—Mr. R. Hudso M.P.S. (secretary, Burnley Pharmaceutic Committee) has been elected vice-chairma of the Burnley Executive Council set u under the National Health Service Act. M J. E. French, M.P.S. (secretary, Kent Pha maceutical Committee) has been electe vice-chairman of the Kent Executive Cou cil.

Visit to Birdsgrove House.—A visit the Pharmaceutical Society's Convalesce Home, Birdsgrove House, Mayfield, Derby was paid by the Chesterefild Branch of t Society on September 3. The visitors, wh were received by Miss M. C. Jones (warde and Mr. S. Taylor (a member of the Hou Committee), were taken on a tour of t house and grounds, later proceeding Buxton for tea and a theatre visit. A members of the party were favourably in pressed with the facilities of the home.

London Chemists' Golf.—At the autum meeting of the London Chemists' Golfir Society held at Hadley Green, Barnet, c September 11, the Mentholatum silv tankard was won by Mr. R. N. Hood (74 Mr. E. G. Nice was adjudged winner the Yeast-Vite prize after a tie with M T. W. D. Turner at two down. Mr. Turn was the winner of the jubilee vase (Stabl ford system), and the Society's prize for t best card of the day was awarded to M C. H. Maile. Entry fees for the jubile vase competition, amounting to £3 15s were donated to the Pharmaceutic Society's Benevolent Fund.

Devon Education Discussion.—Exete Branch of the Pharmaceutical Societ broke away from tradition on September 1 by holding a meeting in Barnstaple to co tinue a discussion on the agenda for th Branch Representatives' meeting whic had been started at a meeting held in Exete on August 29. Thirteen members travelle from Exeter and the meeting was well su ported by North Devon pharmacists. Th main discussion concerned the Society new education proposals and it quickl became evident that the majority of mem bers present thought the Society was aim ing at too high a standard. Alarm wa expressed that few apprentices were no being attracted to the profession, and i was suggested that the Pharmaceutica Society should bring the situation to th notice of the Ministry of Health and th Ministry of Education.

Visit to Welwyn Factory. — A visit to Welwyn Garden City premises of Roche oducts, Ltd., was paid on September 4 members of the Walthamstow Associa- n of Pharmacists. During a tour of the rks the visitors saw the packing depart- nt, tablet and ampoule manufacture, the earch laboratories and the library. ecial interest was shown in the manufac- ing processes of vitamin B and ascorbic d. The visit concluded with tea at ich the visitors were joined by members the staff of Messrs. Roche. The visit, first to be organised since the revival the Association, was regarded as a great ccess.

Hendon & Edgware Discussion.—At a cent meeting of the Hendon & Edgware anch of the Pharmaceutical Society, the eaker was Mr. W. S. Howells (the ciety's treasurer). He first gave an ac- unt of the changes that had been planned r pharmaceutical education, and then alt with the proposed changes in the ciety's constitution. Mr. Howells traced e history of the Society from its founda- on in 1841, and the granting of its charter 1843, to the present day, and said that vision of the charter was necessary in odern conditions to remove anachronisms. n answer to questions, Mr. Howells said at pharmacy was on the eve of tremen- ous potentialities and standards of educa- on must be raised accordingly. By 1958 e pharmacist would be a very important dividual. Medical students would receive o training in pharmacy, but would con- ntrate on diagnosis. The pharmacist ust, therefore, become a consultant to the octor. It was wrong to try to keep phar- acy down to the lowest level of intelli- ence. There should be one register only. roup formations of pharmacists already xisted and did not interfere with or cut across branches. The number of entrants o pharmacy was rising up to 1939, then ell during the war and was now slowly ising again. Although there were more ames on the Register than ever before, it as difficult to fill pharmaceutical posts: his indicated maldistribution of pharma- eutical manpower. War time drug trainees hould continue to do their present work hile the pharmacist devoted himself to ure pharmacy. The chemist's remunera- ion should include a basic payment for roviding pharmaceutical facilities, and the ost of his technical education should be orne broadly by the State. It would still e possible to obtain an external degree at the University of London, a matter which merited consideration. Refresher courses for older pharmacists already existed and should be enlarged. A vote of thanks, proposed by Mr. H. C. Mantripp and seconded by Mr. Horace Wright from the chair, was warmly accorded by those present.

IRISH NEWS

Eire v. Ulster Golf.—The annual golf match between Ulster and Eire chemists was happily revived at Warrenpoint, co. Down, on September 11, when members of the Ulster Chemists' Golfing Association were hosts. The Irish Chemists' Golfing Society were the winners by six strokes and hold The British Drug Houses' Cup for the year. The visitors were welcomed by Major F. A. McMullan, who expressed the pleasure of the Ulster Association at the revival of the annual competition after its lapse during the war. Mr. J. R. Guiler presented the cup to the captain of the Irish Society, Mr. P. MacAuliffe, who returned thanks for the hospitality of their Ulster colleagues. Messrs. J. Currie (65 net), J. F. Walsh (66 net) and W. J. Kennedy (66 net), were the winners of the prizes presented by Mr. E. Allen, captain of the Ulster Chemists' Golfing Association, for the three best cards. A vote of thanks was passed to the captain and council of Warrenpoint Golf Club on the motion of Messrs. A. Hardy and P. Fahey.

Northern Ireland Council.—There is to be no contested election for seats on the Council of the Pharmaceutical Society of Northern Ireland this year. When nominations for the four annual vacancies were received in Belfast on September 22 the following three retiring members were the only nominees:—Messrs. H. F. Moore, Belfast, James Glendinning, Londonderry, and James McDowell, Belfast, all former presidents of the Society. The fourth retiring member was Mr. J. E. Connor, J.P., Newry (also a past president), who did not seek re-election. The vacancy for the fourth seat will be filled by co-option by the Council, following the annual meeting of the Society in October. At the annual meeting a further retirement will be that of Mr. James Irwin, Dunmurry, whose term of office has expired. Under an arrangement for the reduction of the druggists' representation, the vacancy will not be filled. Some surprise has been expressed in Northern Ireland that no other members of the Society came forward for the election, as last year there were seven candidates.

LEGAL REPORTS

Failure to Keep Register.—At Coventry recently Mr. Joseph Morton Knight, M.P.S., Holbrook Lane, was fined £5 for failing to keep a correct register of Dangerous Drugs.

Placed on Probation.—At London Sessions, on August 28, John Edward Mann, charged with indecently assaulting two young women after representing himself to be a doctor (see *C. & D.*, June 14, p. 678) was placed on probation for three years, the chairman informing him that he had narrowly escaped a prison sentence.

Illegal Use of Title.—Summoned at Marylebone magistrates' court, London, by the Pharmaceutical Society for using, though not registered as pharmacists, the title "druggists," Harold Cyril Hartley and his brother, Stanley Percival Hartley, carrying on business as Hartley Bros. at 55 Hampstead Road and elsewhere, were each fined £5, with £3 3s. costs. They pleaded guilty. Prosecuting solicitor said that in July 1945 an inspector of the Society had called upon them and pointed out that it was illegal for them to use that title. On June 27 this year the inspector again called and saw bottles in the window with the name "Hartley Brothers, toilet dealers and druggists" on the labels. He informed the Society.

Pharmacy Act Fines.—Fines totalling £30 were imposed, on September 18, by Stockport county magistrates on N. H. Kenyon, Ltd., 42 Church Street, Leigh, Lancs, on summonses for selling by retail, at 8 Fir Road, Bramhall, Ches, a Part 1 poison (acetanilamide in Antikamnia tablets), while not an authorised seller; for selling it in a container not labelled in the prescribed manner; and for using, in connection with a sale of goods by retail, the title "chemists." Mr. Norman Haslam Kenyon (managing director of the company) told the court that there had been a qualified pharmacist at the shop until December 1946, and since then there had been three temporary pharmacists. The last one left two days before the alleged offences. He had advertised without success for a pharmacist. Defending solicitor said it was clear that in general the firm was not intending to carry on business in defiance of the Pharmacy Act. Mr. Kenyon had been in business for about sixteen years, and this was his first offence. There were now no poisons at the shop and the sign "chemists" had been removed.

COMPANY NEWS

Frank Rye, Ltd. (P.C.).—Capital £2,000. To carry on the business of retail and wholesale chemists and druggists, etc. Frank Rye, M.P.S., and Mrs. Winifred I. Rye, directors. R.O.: 119 Poole Road, Westbourne, Bournemouth.

Cairo Emporium Co., Ltd. (P.C.).—Capital £500. To carry on the business of manufacturers of and dealers in chemicals, cosmetics, etc. Bandali L. Kanjee and Mrs. Kulsum S. Devjee, directors. R.O.: 8 Ledbury Road, London, W.11.

Wight Foam, Ltd. (P.C.).—Capital £100. To carry on the business of manufacturers of and dealers in soap substitutes and chemical substances, etc. John C. D. Gould and Victor E. Stark, directors. 54 Fairlea Road, Newport, I.W.

Pharmaceutical Supply (London), Ltd. (P.C.).—Capital £300. To carry on the business of manufacturers of and dealers in chemical and other similar products, etc. Mrs. Edith E. Rogers, 26 Meadow Way, Littlehampton, Sussex, is the first director.

Notion Distributors, Ltd. (P.C.).—Capital £100. To carry on the business of wholesalers and importers of and dealers in toilet preparations, perfumes and proprietary articles, etc. Richard S. Leage, 1 Thirlmere Road, Streatham, S.W.16, and Fdk. J. C. Parr, 100 Lancing Road, Orpington, directors.

E. C. Pryce, Ltd. (P.C.).—Capital £4,500. To acquire the business of a photographic and dispensing chemist and druggist and optician now carried on by Edward C. Pryce at 804 High Road, Tottenham, London, N.17, as "E. C. Pryce." Edward C. Pryce, M.P.S., Emily Pryce and Alexander MacPhee, directors.

Nimbus Laboratories, Ltd. (P.C.).—Capital £1,000. To carry on the business of manufacturers of and dealers in cleansing materials, toilet requisites and cosmetics, disinfectants and chemical preparations, etc. Alan C. E. F. Kennish, Leopold W. Brock and Gladys E. Brock, directors. R.O.: 839 Salisbury House, London Wall, London, E.C.2.

The British Drug Houses, Ltd.—The directors recommend that the borrowing powers of the company should be extended from their present limit of the nominal amount of the issued capital (£1,125,000) to the nominal amount of the authorised capital (£2,250,000). The directors propose that the limit on their borrowing powers should extend not merely, as at present, to the borrowing of the parent company, but also to the borrowing for its own purposes of any of the subsidiary companies, excluding inter-company borrowings. To achieve these objects a special resolution is to be submitted at the extraordinary general meeting to be held in London on October 14.

TOPICAL REFLECTIONS

nference Chairman's Address

A certain austerity characterises Mr. A. Bull's second address from the chair the British Pharmaceutical Conference 346). Science, as Sir Henry Dale told not long ago, is austere: it is fitting that Conference chairman's address exempli- this feature. Mr. Bull had evidently himself a high standard; and much npathy has gone out to him in his be- vement. In general terms I may describe subject as a forecast of changes in pre- ibing, dispensing, and manufacture. ar the beginning of the address he ad- nced the proposition that pharmacy must llingly accept "any changes which make progress in the healing art however ich they may interfere with our precon- ved ideas of what constitutes pharmacy." econceived ideas can result, if not cked, in die-hard futility. Mr. Bull led to his forecast by enumerating and illus- ting the factors that have been associated th changes in pharmaceutical practice ring the past 150 years or thereabouts. referring to recent developments he drew tention to the harm done to "the proper velopment" of new medicaments by popular" articles and radio "appeals," y or all of which can raise false hopes. ur fellow-citizens deserve more considera- n than to be pelted with sob-stuff in the ess and melodramatic turns over the radio alleged "miracle drugs." The real racle lies in the patience or credulity, as e case may be, with which such crudities e received.

ringent Standards

The chairman's requirements for the harmacist of tomorrow included "at least nodding acquaintance" with serums and ccines (this, I trust, the pharmacist of day has), with diagnostic reagents, and ith the physics of atomic fission. He inted out that though compounding has in some ways" been simplified, its mate- als have become more numerous and more mplex, and requirements for finished roducts more stringent. This statement d to a passage on standardisation. Mr. ull thought that the next British Pharma- pœia would be more than ever a book standards, and less a formulary than be- re. He said this, no doubt, with good ason, though it was believed not long o that the coming B.P. would contain ore formulas than the present one. Known, admitted and approved formulas prescribers must have; when they are not to be found in the Pharmacopœia they must be looked for elsewhere. Standardisation of chemical and biochemical medicaments should, I submit, be uniform for the United Kingdom, the Dominions and Colonies, and the United States; when the unification has been effected, the next step —if that step has not then been taken— may be to establish uniformity with the awaited International Pharmacopœia, so far as the same medicaments are recognised in it. This and similar questions concern every practising pharmacist; for, in the chairman's words, "dispensing cannot, in the main, be mass-produced."

Office and Works Efficiency

Far be it from me to recommend, or even to countenance, the indiscriminate purchase of Government publications. During the past few days, however, a report of the House of Commons Select Committee on Estimates has appeared (H.M. Stationery Office, 4s.) containing hints generally applicable for economising in time and labour in offices and works. One department has, it is stated, obtained relief equivalent to "at least twenty typists" by means of a photostat installation. In another department, by another means, a decrease of 300 in the personnel is reported. From my own correspondence I gather that, by one method or another, reductions in Government staffs are being made. The important question of noise during work is dealt with in the same report. An official publication gives the following analysis of noise in offices: "It is made up of a number of distinctive sounds from tapping typewriters, clacking business machines, whirring fans, thumping rubber stamps, buzzing telephones and ringing cash registers, plus a number of general sounds from conversation, laughter, coughs, scuffled feet, banged doors, drawers and radiators." Some of these noises, obviously, can be eliminated or reduced by the exercise of good manners. The banging of doors, for instance, is a habit attributed to natives of one of the ex-enemy countries that I need not name. As to typewriters, "noiseless" ones are not so extensively used as might have been expected: possibly some managers like to assure themselves aurally that their typists are working diligently.

Xrayser

BIRTHS

POOTS.—At Larne District Hospital on September 11, Hannah, wife of Ernest A. Poots, M.P.S.N.I., Coolgreany, Glenarm Road, Larne, Northern Ireland, of a daughter.

TOUGH.—At Main Street, Inverary, on September 17, 1947, to Agnes (née Paul), the wife of James Robertson MacPherson Tough, M.P.S., of a daughter.

DEATHS

ARCHER. — On September 15, Mr. William Archer, M.P.S., 89 Cherryhinton Road, Cambridge. Mr. Archer qualified in 1900.

BAISS.—On September 1, in Buenos Aires, Mr. William Arnold Baiss, aged seventy-two. Mr. Baiss was the son of one of the founders of Baiss Bros. & Stevenson, Ltd., wholesale druggists, and brother of the late Mr. Harold A. Baiss who was well known in the drug trade in Buenos Aires for many years until his death in 1929. Before settling in Buenos Aires, Mr. William Baiss lived in Rio de Janeiro for a number of years as representative for a number of pharmaceutical manufacturers and of his father's company, and was associated with the late Don Arsacio Ibáñez, representative in Buenos Aires of Negretti & Zambra. Mr. Baiss is survived by his widow and two sons.

HENNEY. — On September 4, Mr. Christopher Henney, M.P.S., P.O. Box 27, Graafe Reinet, South Africa. Mr. Henney qualified in 1910.

HOLMES.—Suddenly, on September 18, Mr. John Holmes, 2 Ashgrove, Menston-in-Wharfedale, Yorks, aged seventy-four. Mr. Holmes qualified as a chemist and druggist in 1894, and passed the Pharmaceutical Chemist examination in 1898. He was in business on his own account in Bradford until 1912. For the next thirty-three years he acted as representative of Robert Gibson & Sons, Ltd., and was well known to chemists in the North-eastern Counties and West Riding of Yorkshire. Mr. Holmes retired in 1945.

LACEY.—On September 4, Mr. Richard Samuel Lacey, 19 Norman Avenue, Abingdon, Berks, aged seventy-one. Mr. Lacey qualified as a chemist and druggist in 1898.

MASSIE.—On September 7, Mr. Robert Massie, M.P.S., 3 Carmelite Street, Banff. Mr. Massie qualified in 1940.

PLATT.—On September 19, Mr. Georg Platt, M.P.S., 9 Coniston Road, Blackpoo manager of a pharmacy in Lytham Roac aged seventy-one.

WAGSTAFF.—On September 12, Mis Margaret Gundreda Wagstaff, Ph.C Harrow Weald, Middlesex, aged sixty nine. Miss Wagstaff qualified as chemist and druggist in 1909 and passe the Pharmaceutical Chemist examinatio in 1911.

WILLS

MISS MARY ANNE MASON, M.P.S Sudbury Avenue, Ilkeston, Derbys, left £40(

MR. EDGAR MARSH CHAPMAN, Ph.C F.R.I.C., 125 Scalby Road, Scarborougl left £18,248, with net personalty £16,737.

MR. HUGH EDGSON, M.P.S., 29 Manc Park Crescent, Edgware, Middlesex, lef £407.

MR. AUSTIN CLARE SAXBY, 2 Keynshar Parade, Cheltenham, retired chemist, lef £1,281, with net personalty £1,126.

MR. CHARLES BAXTER ARAM, M.P.S Boothby Graffoe, Lincoln, left £7,631, wit net personalty £7,541.

MR. DOMINICK AUGUSTINE DOLAN M.P.S.I., Brackenlea, Baily, Dublin, lef personal estate in England and Eire value at £30,854.

MR. HAROLD BOOTH, 262 Lancaster Roac Morecambe and Heysham, Lancs, retire chemist, left £4,278, with net personalt £4,219.

MR. WILLIAM CLIFTON CRANE, 15 Rectory Road, Sutton Coldfield, Warwicks retired chemist, left £15,290, with net pei sonalty £15,185.

MR. DAVID LLEWELLYN JONES, Hazl mount, Hillside Road, Colwyn Bay, Dei bigh, retired chemist, left £3,063, with ne personalty £2,942.

MR. ROBERT SMITH CARRIE, Stoneheng Druids Cross Road, Mossley Hill, Live pool, retired chemist, left £3,839, with ne personalty £3,772.

MR. PHILIP HENRY HACKING, M.P.S., 1 Scott Road, Morecambe, Lancs, formerly c Audley Range, Blackburn, left £6,281, wit net personalty £4,722.

MR. WILLIAM BROWN NELSON, M.P.S 195 Hale Lane, Edgware, Middlesex formerly general manager of Allen Hanburys, Ltd., Bethnal Green, E.1, lef £4,427, with net personalty £4,302.

MR. CHARLES PLUMMER, 20 Trin Avenue, Ealing Common, London, W.5 (chairman and former managing directo of Chesebrough Manufacturing Co., Ltd. left £20,873, with net personalty £20,22(

PERSONALITIES

Mr. Robert McAuley, M.P.S.N.I., has en appointed secretary of the newly med Senior Chamber of Commerce, thfriland, co. Down.

Mr. C. S. Ritchie, M.P.S.N.I., manager Wm. A. Hill, Ltd., Londonderry, has n the Telegraph Cup of the Londonderry wling Club this season, and has also ished runner-up in the green champion- p.

Mr. T. Heseltine, M.P.S., a member the council of the Pharmaceutical ciety and of the executive committee of e National Pharmaceutical Union, is iting the U.S.A. and Canada where he to make a number of business calls.

Captain C. F. Turner, F.R.I.C. (Assis- nt City Analyst, Liverpool) has retired ter nearly thirty-five years' public service. fter working in the Lancashire County aboratory, Captain Turner joined the aff of the Liverpool City Analyst in 1912.

COMING EVENTS

Monday, September 29

ough Branch, Pharmaceutical Society, Social Centre, Slough, at 7.30 p.m. Debate on "Are Pharmacy Employees Getting a Fair Deal?" between Mr. E. Skues and Mr. W. S. Benjamin.

embley Chemists' Association, Town Hall, Wembley, at 7.45 p.m. Mr. F. C. Wilson (a member of the Council of the Pharmaceutical Society) on "Matters of Moment."

heffield Branch, National Pharmaceutical Union, Metallurgical Club, West Street, Sheffield, at 8 p.m. Annual meeting.

Wednesday, October 1

olverhampton Branch, Pharmaceutical Society, Wulfrum Hall, Wolverhampton, 7.30 p.m.- 1 a.m. Dance and cabaret. Tickets 6s. each. [The annual dinner of the Branch has been cancelled in the interests of national economy.]

ondon Branch, Guild of Public Pharmacists. Visit to Dagenham works of May & Baker, Ltd., leaving Bloomsbury Square, London, W.C.1, at 1.15 p.m. Particulars from Mr. S. Powlson, Flat 4, 5 Brackley Road, Beckenham, Kent.

usiness Efficiency Exhibition, Empire Hall, Olympia, London. Open until October 11 (except Sunday).

Thursday, October 2

urham Branch, Pharmaceutical Society, Pattinson's Cafe, 56 Old Elvet, Durham, at 7.30 p.m. Dr. G. E. Foster (Burroughs Wellcome & Co.) on "The Analytical Control of Pharmaceutical Products."

ational Association of Women Pharmacists, 17 Bloomsbury Square, London, W.C.1, at 7 p.m. Miss K. Coward, D.Sc., on "The History of the Adoption of Biological Standards for the Determination of the Vitamins."

ondon Section, Chemical Society, Burlington House, Piccadilly, London, W.1, at 7.30 p.m. Professor F. G. Donnan, C.B.E., F.R.S., delivering the Ernst Julius Cohen Memorial Lecture.

Saturday, October 4

London and South-eastern Counties' Section, Royal Institute of Chemistry, University College, Southampton, at 5 p.m. Scientific film display and discussion on local activities.

Monday, October 6

Southampton Branch, Pharmaceutical Society, Polygon Hotel, Southampton, at 7.30 p.m. Lecture and film show on "Vitamins."

Romford Branch, Pharmaceutical Society, Market Room, Golden Lion Hotel, Romford, at 7.30 p.m. Dr. S. O. Rawling, F.R.P.S., on "The Behaviour of Some Photographic Materials."

Birmingham Pharmaceutical Association is holding a dance at the Botanical Gardens, Edgbaston, on Wednesday, October 15, 7.45 p.m.—1 a.m. Tickets (price 7s. 6d. each) may be obtained from Mr. D. J. Rushton (secretary), 1088 Stratford Road, Birmingham, 28, or from any member of the committee.

North London: Window display competition organised by Crookes Laboratories, Ltd., October 6-18.

BUSINESS CHANGES

Mr. John Lawson, Ph.C., has removed to 65 Trevor Road, West Bridgford, Nottingham. His telephone number (Nottingham 31540) remains unchanged.

Miss Marie Holden, I.S.M.A., has taken up an appointment as sales manager for a new product being marketed by the Velvet Crepe Paper Co., Ltd., Alperton.

Mr. A. H. Edwards, representative in the Midlands of Stemco, Ltd., has removed to Corley House, 117 Gulson Road, Coventry.

Mr. G. F. Patterson, B.Pharm., Ph.C., has acquired the pharmacy at 7 Villiers Road, Manor Park, Slough, formerly carried on by Mr. Stanley Morgan, M.P.S.

Mr. Stanley Morgan, M.P.S., has acquired the pharmacy at 33 Broad Street, Welshpool, Montgomerys, formerly carried on by Mr. Lloyd Hughes, M.P.S.

May, Roberts (Ireland), Ltd., Grand Canal Quay, Dublin, C.6, have been appointed distributors in Eire for the products of Boots Pure Drug Co., Ltd., from October 1.

Marshall, French & Lucas, brokers and importers, are removing on September 29 to Market Buildings, 29 Mincing Lane, London, E.C.3. The telephone numbers (Mansion House 4261-63) remain unchanged.

"Saint Penicillin."—Nature . . . is prodigal of pain and I should like to find a day when we could take a holiday—a day of jubilation—for good Saint Anæsthesia and the chaste and pure Saint Antiseptic. I should feel bound to celebrate, among others, Saint Penicillin and Saint M. & B."—Mr. Winston Churchill in an address to the Royal College of Physicians.

TRADE NOTES

Again Available.—Johnson Agencies (Proprietaries), Ltd., Clarendon Works, 32 North Street, Horsham, Sussex, announce that Clarendon digestive mints and limited quantities of Vola Seltzer granules are available either through wholesalers or direct.

Winter Proprietaries.—A. E. Stannard, Ltd., Tadworth, Surrey, are manufacturers of an attractive range of winter specialities, including Koffs bronchial tablets. Terms for the company's speciality Ice-Balm may be had on application or by reference to the company's announcement in the *C. & D.*, August 30, p. 13.

Brush-on Lip Colour.—Rimmel Distributors, Ltd., 48 North Row, Park Lane, London, W.1, have introduced Rimmel Lipbrush compact, containing brush, mirror and lip-rouge in the standard Rimmel shades. The makers claim that the method produces "lovely clear-cut lines with no fading or blurring."

Non-electric Dry Shaver.—Wilkinson Sword Co., Ltd., 53 Pall Mall, London, S.W.1, draw attention to their dry-shave razor, which operates without lather and without electricity. The instrument shaves by means of a rocking movement applied by the hand of the holder. A national advertising campaign is in progress.

Carotene Supplies.—Frederick Boehm, Ltd., 19 Bentinck Street, London, W.1, acting as sales agents for an associated company, British Chlorophyll Co., Ltd., Navenby, Lincs, have issued an illustrated brochure, in full colour, describing the sources, manufacture, and applications in food manufacture of carotene vitamin-A precursor.

Prices of Plasters.—The Central Price Regulation Committee has approved new trade prices agreed upon by the Medical and Surgical Plaster Makers' Conference. The revised prices come into effect on October 1, 1947, and notice has been given that orders or balances of orders outstanding on that date will be charged at the new rates unless cancelled in the meantime. A list of members of the Conference, each of which is understood to be preparing a new price list, is given in an announcement on another page.

Antibacterial Agent.—The British Drug Houses, Ltd., Graham Street, City Road, London, N.1, have introduced Gecophen brand *p*-chlorophenyl-α-glycerol ether, which is being issued as a preservative for use in pharmaceutical preparations intended for external or parenteral administration, and in toilet preparations. The points for which the company claims special importance are that the compound is non-irritant, chemically stable and retains its bactericidal activity at high dilutions. It is issued in bottles of twenty-five, fifty and 100 gm.

Metallic Poisoning Treatment.—The medical department of Boots Pure Drug Co., Ltd., Station Street, Nottingham, has introduced injection of B.A.L.—Boots, a 5 per cent. solution of dimercaptopropanol with 10 per cent. benzyl benzoate in arachis oil. B.A.L. was produced during the 1939-45 war as an antidote to poisoning by arsenical war gases such as Lewisite. Recent clinical work has established its use in the treatment of cases of arsenical mercurial and gold poisoning. The preparation is issued by Messrs. Boots in 2-c.c. ampoules in boxes of twelve.

Film Booking Arrangements. — "Take Thou," the documentary film sponsored by Evans Medical Supplies, Ltd., Speke, Liverpool, 19 (see *C. & D.*, May 24, p. 597), has been included in the Central Film Library, Imperial Institute, South Kensington, S.W.7. Requests for the loan of the film should henceforth be made direct to the Library, unless the services of the Mobile Film Units of the Central Office of Information are required, when application should be made to the Film Officer at the appropriate Regional Office of the Central Office of Information. Inquiries, other than actual bookings, should be addressed to the company's publicity department.

Booklets.—The range of standard publications issued by May & Baker, Ltd., Dagenham, has recently been brought up to date with new editions of the following booklets: "Acigen" (fourth edition); "Ascabiol" (fourth); "Dmelcos" (first since before the 1939-45 war); "Phenioldol" (third) and "Nicotinic Acid, M. & B. and Nicotinamide, M. & B." (second) (first edition now obsolete). Other publications recently issued by the company include semi-rigid folders on M. & B. acridine antiseptics (giving table of comparative data); M. & B. sulphonamides; and Thiazamide preparations; leaflets on penicillin dental cones and oil-wax suspension; and a blotter advertising Theogardenal theobromine and phenobarbitone tablets.

Expansion.—Scrubb & Co., Ltd., Morden Road, London, S.W.19, announce that the demand for their recently introduced paint and silver cleaners, dry cleaner, furniture cream, etc., has been so great that arrangements have been made to acquire further factory space. Messrs. Scrubb have also been developing the export market. In April 1946, Mr. C. K. Metcalfe (son of the company's chairman and the advertisement director of the company) flew 40,000 miles in four months, visiting Australia, New Zealand, India, Malay, Burma and Ceylon, reviewing and revising manufacturing and sales arrangements. The tour was followed by a flight by the secretary (Mr. H. L. Shephard) to Egypt, Kenya and South Africa.

On Purchasing Mission.—Now on his way to Great Britain on a purchasing mission which is expected to last eight months is Mr. Lawrence Fripp (a director of Rocke, Tomsitt & Co., Pty., Ltd., Melbourne, one of Australia's oldest and largest manufacturing chemists and wholesale druggists). Mr. Fripp will also study latest methods of manufacture and plant design.

Established in 1887, Rocke, Tomsitt & Co. supplies the Australian home market and the export trade to the Far East.

Proprietary Medicine Standards. — A brochure of twenty-four quarto pages, handsomely printed on art paper between limp covers, presents, on behalf of the Proprietary Association of Great Britain, 43 Gordon Square, London, W.C.1, an account of the "growth and establishment of the industry as an integral part of our social economy." The brochure is essentially a rejoinder to criticisms recently made, and familiar to *C. & D.* subscribers. It is intended for the general public. The first chapter, a brief account of the origin of some of the oldest proprietaries still being advertised, is followed by others on "So-Called Self-medication," "The Law and the Public," "The Manufacturer and the Public," "The Modern Manufacturing Plant," costs and selling prices, and exports, concluding with the Association's code of standards of advertising practice and a list of member companies and their products.

Proprietary Articles Trade Association

Alterations to Protected List (Part 1).—The *Crookes Laboratories, Ltd.*, Crookes pulv. alkalina co., jars, 18s. doz., tax 3s. doz., i.r.p. 2s. 6d. Crookes vitamin A capsules, 25's, 4s. 6d., 36s. doz.; 100's, 16s. 9d., 134s. doz. (exempt from tax).

The British Drug Houses, Ltd., Lysol, B.D.H., 4-oz., 1s. 1½d., 8s. doz.; 8-oz., 2s., 13s. 6d. doz. (exempt from tax). Glycerin suppositories, B.D.H. brand: Prices of children's and adult sizes increased and now identical. Bottles of twelve, 2s. 3d., 18s. 6d. doz., tax 3s. doz., i.r.p. 2s. 6d.

Bob Martin, Ltd., Increased prices, October 1: Bob Martin's preparations for dogs and cats: Distemper powders, 6s. 2d. doz., tax 10d. doz., i.r.p. 9d. Worm powders, 16s. 4d. gross, tax 2s. 6d. gross, i.r.p. 2d.; 6s. 2d. doz., tax 10d. doz., i.r.p. 9d. Worm tablets, 6s. 2d. doz., tax 10d. doz., i.r.p. 9d.; 24s. 4d. gross, tax 4s. 8d. gross, i.r.p. 3d. Worm capsules, 6s. 2d. doz., tax 10d. doz., i.r.p. 9d. Aperient powders, 6s. 2d. doz., tax 10d. doz., i.r.p. 9d. Stomach powders, 14s. 4d. doz., tax 2s. 4½d. doz., i.r.p. 1s. 9d. Diarrhœa powders, 6s. 2d. doz., tax 10d. doz., i.r.p. 9d. Fit and hysteria tablets, 14s. 4d. doz., tax 2s. 4½d., i.r.p. 1s. 9d. 92 ointment, 10s. 2d. doz., tax 1s. 8½d. doz., i.r.p. 1s. 3d. Foot powder, eye drops, canker powder and lotion, 14s. 4d. doz., tax 2s. 4½d. doz., i.r.p. 1s. 9d. Antiseptic fluid, 1s. 6d., 13s. 10d. doz. (exempt from tax).

Moore Medicinal Products, Ltd., Increased prices, October 1: Deedon inhaler, pocket model B, 21s., 168s. doz. Home model C, 27s., 216s. doz. Composite model D, 29s., 244s. doz. Model E, 22s. 6d., 180s. doz. (exempt from tax).

Alterations (Part 2).—*Culmak Ltd.*, Reduced prices, October 1: No. 42 shaving brush, 274s. doz., tax 91s. 4d. doz., i.r.p. 42s.

Thos. Harley, Ltd., Rodine rat poisons. Bonus of one extra tin to doz. 1s. 3d. size from October 1 to 15 inclusive in return for window display of 7-14 days.

Herts Pharmaceuticals, Ltd., Nivea creme, No. 368, 10s. 9d. doz., tax 10s. 9d. doz., i.r.p. 2s. 3d.; No. 363, 19s. 2d. doz., tax 19s. 2d. doz., i.r.p. 4s.

Additions (Part 1).—*Parke, Davis & Co.*, Inhalone, collapsible tubes, 1s. 6d., 12s. doz., tax 2d. each, i.r.p. 1s. 8d. Analgesic balm, collapsible tubes, 1s. 9½d., 14s. 4d. doz., tax 2½d. each, i.r.p. 2s. *Scrubb & Co., Ltd.*, dry cleaner, 10-oz., 2s., 15s. 9d. doz.; paint and enamel cleaner, 10-oz., 1s. 3d., 11s. 3d. doz.; window cleaner, 10-oz., 1s. 6d., 13s. 6d. doz.; furniture cream, 8-oz. tin, 2s., 15s. 9d. doz.; silver and plate cleaner, 8-oz. tin, 1s. 6d., 13s. 6d. doz. (exempt from tax).

Myram Picker, Ltd., Agents for Outdoor Girl preparations, Gala preparations, and Henry C. Miner, Ltd.

Thompson & Capper Wholesale, Ltd., Q.A. brand aspirin tablets, 25's, 5s. doz., tax 10d. doz., i.r.p. 9d.; 100's, 11s. doz., tax 1s. 10d. doz., i.r.p. 1s. 9d.

PENICILLIN SUPPLY POSITION

To help to overcome a temporary shortage of penicillin in Great Britain, the Ministry of Supply has decided to cut penicillin exports. Despite a continued rise in production (409,000 mega units in August against 344,000 mega units in March), says the Ministry, hospitals and other users have recently complained of shortages which are caused by the large dosages now employed, the use of penicillin in a wider range of diseases, and the export of too large a proportion (at present about 40 per cent.) of the total amount available. It has been decided to restrict exports in the immediate future to 30 per cent. of the production, but the situation is being kept under review so that as much can be exported as is consistent with home needs.

Memorandum to Doctors

The Ministry of Health has issued a memorandum to the medical profession pointing out that, according to a recent investigation, while penicillin is nearly always properly prescribed and used, a degree of wastage does occur. The object of the memorandum is to ensure its most economical use, without detriment to the patient and without interfering with a doctor's right to prescribe according to his own judgment. The following is a summary of the memorandum:—

Increase in dosages has led to an increasing demand for the larger vials, particularly the 500,000-1,000,000 mega unit sizes. Until packing arrangements can be altered to meet the new demand, users are requested to accept those vial sizes which are immediately available. White or crystalline penicillin, which is more expensive than yellow and which forms only a small proportion of the penicillin now produced in the United Kingdom, need be used only for intrathecal, ventricular or subconjunctival administration; in all other conditions yellow penicillin (the potency of which is now about 1,000-1,200 units per mgm.) is equally effective.

Under the conditions of storage shown on the package the useful life of dry penicillin can be expected even to outlast the expiry date, but solutions should be kept in a refrigerator. Penicillin is destroyed by acids and alkalis, by such metals as zinc, lead, copper and aluminium, by the primary alcohols, and by oxidising agents such as hydrogen peroxide and potassium permanganate. It is destroyed by prolonged boiling but is not affected by hea ing, at 60°-70° C., for some minutes.

For successful treatment penicillin shou be used only in infections by sensiti micro-organisms; when there is any dou a bacteriological test should be made. must be administered so that it comes in contact with the infecting microbes, eith locally or through the blood strear Sterility of syringes, bottles and solutio must be maintained throughout. Th amount administered must be sufficient produce a bactericidal concentration in th infected focus, and it must be given lor enough to eradicate the infection. Dosag must be adjusted to the individual circum stances, but the most effective tactic whe treatment is likely to be lengthy is usuall to start with large doses on the first day c first few days, followed by smaller doses t the end of the course. Except in ophthalmi conditions and with the dusting of powde direct into wounds, topical applicatio alone is not always effective and bette results are often obtained if penicillin i exhibited systemically either instead of, o in conjunction with, topical application.

Sensitive Organisms

The following microbes are sensitive t pencillin: Staphylococcus, streptococcus pneumococcus, meningococcus, gonococcus diphtheria group, anthrax bacillus, tetanu bacillus, spirochætes and gas gangren organisms. The following are insensitive: Coli-typhoid group, dysentery group hæmophilus group, *B. pyocyaneus, B. proteus,* cholera, enterococcus, tubercle bacillus, brucella and *B. pestis.*

Penicillin is effective in the treatment of: Septicæmias, pneumonia, empyema, osteomyelitis, meningitis, subacute bacterial endocarditis, venereal diseases, wounds and burns, corneal ulcers, cellulitis, furunculosis, carbuncles, breast and other abscesses, actinomycosis, Vincent's angina, sycosis barbæ, impetigo, and bronchitis (acute and chronic).

Penicillin is ineffective in the following diseases: Typhoid group, dysentery group, tuberculosis, influenza (virus), whooping cough, malaria, rheumatoid arthritis, pemphigus (adult), ulcerative colitis, psoriasis, disseminated sclerosis, Parkinson's disease and carcinoma.

The memorandum concludes: " A number of pharmacists throughout the country have been licensed under the Therapeutic

bstances Act to dispense sterile aqueous jections and oil-wax suspensions of penillin. These pharmacists have had to tisfy the Licensing Authority that their emises and staff are suitable for the purse. They are inspected by the inspector nder the Act. The firms have gone to nsiderable expense and trouble to meet e requirements of equipment and special commodation and they have all excellent cilities for dispensing sterile preparations nder strict aseptic conditions. Where a ctor himself does not prepare solutions penicillin from a vial of the dry subance and an ampoule of sterile water, it most desirable that the services of these censee pharmacists should be utilised. It as been reported from many quarters that in some smaller hospitals nurses frequently prepare multiple-dose containers of penicillin. It is not unfair to say that such work does not properly lie within their scope. When a nearby pharmacist holds the necessary licence it is clearly preferable to use his services when the doctor does not himself prepare the injection."

[Glaxo Laboratories, Ltd., Greenford, Middlesex, point out that the proportion of their penicillin production which has been exported in recent months has never exceeded 30 per cent. The decision of the Ministry of Supply to limit exports to 30 per cent. will not therefore make available for the home market any extra supplies of the company's product.]

INQUESTS

Experimental Explosion.—At an inquest t Southampton recently on a sixteen-yearld schoolboy, it was stated that the boy ad mixed potassium chlorate and phoshorus experimentally and had placed the ixture in a cylinder. An explosion ccurred, and the boy received injuries from hich he died. Bottles containing chemicals btained from chemists, cotton-wool, and unpowder were found near the scene of he explosion. The coroner read a letter rom the Home Office which stated that harmacists had been requested not to upply to any child under sixteen chlorates, itrates, magnesium, phosphorus, potasium permanganate, sulphur, and powdered luminium: he returned a verdict of death y misadventure due to profuse hæmorrhage, shock, and wounds caused by the xplosion of a mixture of potassium chlorate nd phosphorus placed in an iron cylinder.

Barbiturate Supply Irregularity.—At an nquest at Moreton-in-the-Marsh, Glos, recently, on Mrs. L. M. Russell-Andrews, evidence was given that Medinal tablets had been obtained for her by Dr. Smallhorn, a retired medical practitioner, in excess of the quantity ordered by her prescriber. He had done this on his own responsibility and to save Dr. Jameson (the prescriber) the trouble of writing prescriptions every fortnight. Twenty-four were prescribed, and 100 supplied. Mr. G. P. Clark, M.P.S., Moreton-in-the-Marsh, said he had supplied the tablets. Addressing the jury, the coroner said, "You may well think the conduct of Dr. Smallhorn in obtaining extra supplies in an irregular fashion was regrettable, and the same remark applies to the irregular fashion in which the chemist seems to have sold these tablets without being in possession of prescriptions given by a qualified medical man. These are no consideration of ours, but may well be the subject of other inquiries." An open verdict was returned, the jury stating that there was not sufficient evidence to show how the drug was administered.

400-Fold Error. — At an inquest at Stourbridge, Worcs, recently, on Joseph Henry Robinson, Lye, nr. Stourbridge, a doctor stated that he was advised by the resident surgical officer at a neighbouring hospital to administer Carbachol to Robinson. Witness obtained three ampoules of the drug from a local chemist and after reading the instructions dissolved the contents of one ampoule, and injected it into Robinson's arm. The patient died before an antidote could be administered. The ampoules, he said, were not the ones he had expected, as each contained 0.1 gm. The proper dose was 0.25 mgm. When he received the ampoules there was nothing to indicate that they were not for injection, and a leaflet in the box said nothing of the way in which Carbachol, made up in that way, was to be used — for an electrical treatment. A pharmaceutical witness stated that the preparation used by the doctor produced an injection four hundred times the proper strength. The jury, which was of the opinion that neither the doctor nor the local chemist was blameworthy, returned a verdict of accidental death. The jury considered it was desirable that greater care should be taken with instructions in packages of that type of drug.

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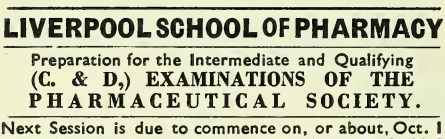

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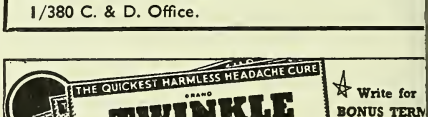

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OL. CXLVIII SEPTEMBER 27, 1947 NO. 3527

Salus et Felicitas

N the wholesome conviction, maybe, that harmacy must have a considerable bearng upon the subjects of its civic motto, the Corporation of Torquay spared no support o the hardworking local committee in a ighly successful endeavour to make the 947 British Pharmaceutical Conference he memorable occasion it proved to be. On ll sides there was high praise for the rganisers. In full peace-time conditions heir work would have been laudable. In he present difficult national conditions it was beyond praise.

A cynic, when asked over a Conference ea-table how success could be assured in rganising Branch meetings, hazarded the recipe "Pie and peas." Without necessarily agreeing that the pure undiluted essence of pharmacy is inadequate to hold the interest of all members on all occasions, we are well aware that the felicity of the Conference members at Torquay was certainly increased by the excellence of the catering arrangements. Brighton and Hove Branch members, whose invitation to the Conference to meet in Brighton in 1948 was unanimously accepted, may be feeling some apprehension lest, through food restrictions already made more stringent, their efforts next year will suffer by comparison. Let them be reassured on that score. Everybody appreciates the handicaps, and Brighton has secured the admiration of the Conference for its courage in tackling what is certain to be a stiff proposition.

Passing from the "felicity" aspect of the Torquay meeting, we turn to "Salus," which is at the very core of the *raison d'être* of the Conference. Detailed comment is made below on proceedings at the Branch Representatives' meeting, but a few general observations suggest themselves. Attendance at all the Science Sessions was good. It seemed to be appreciated that every paper was specifically pharmaceutical. Pharmacology, or pure chemistry, or one of those other sciences facetiously described by Mr. Linstead as "unimportant," have, in other years, been the subject of papers written, perhaps, by pharmacists. This year's Conference was the stronger for their omission. A second point is that the Symposium Session, carefully nursed in its early stages, may be regarded as firmly established. It was clear at this year's Session that the experiences of retail, hospital and manufacturing pharmacists, told from the floor-level rostrum (a commendable innovation, enabling the contributors to be clearly seen and heard without exposing any unpractised speakers to the risk of "stage fright"), were of mutual value to all.

Leadership Changes

Changes, more numerous than usual, in Conference personnel, were notified at the closing session. Mingled with regrets that after eighteen years Dr. Boyes is relinquishing his position as secretary is the satisfaction that he is to shoulder the less arduous duties of treasurer. We take the opportunity of adding our own tribute to Dr. Boyes's secretaryship, and our gratitude for many past kindnesses at his hands. Mr. B. A. Bull relinquishes the chair after a second successful year of office, a year made sad by personal bereavements, but more happily noteworthy also for the *début* of his son, Mr. A. W. Bull, who proved himself a capable and informed champion of the younger generation. In due course he may emulate his father in chairmanship of the Conference. The 1947-48 chairman, Mr. Norman Evers, is not a pharmacist. He has, however, for so long been associated with pharmacy and with the Conference that it must have come as something as a surprise to many present at the closing ses-

sion that his name does not appear on the Register of Chemists and Druggists. Mr. Evers has made many notable contributions to the Science Sessions in the past, and under him the British Pharmaceutical Conference may rest assured that its "salus et felicitas" is assured in the immediate future. Mr. Treves Brown will continue to enjoy as senior secretary the full confidence he has won on all sides, and the new holder of the junior position, Mr. H. G. Rolfe, Ph.C., comes into the post with strong recommendations.

Pharmacists and Their Council

To sum up in a few words the course of the Branch Representatives' meeting at Torquay on September 17, it would be fair to describe the morning session as a series of retreats by the Council, followed in the afternoon by an overwhelming vote in favour of the new educational scheme. With the latter is linked a personal triumph for Mr. Linstead who, in the absence in mid-Atlantic of the chairman of the Education Committee, expounded Mr. Maplethorpe's proposals with a cogency and skill that could hardly have been greater had the scheme been his own.

At the morning Session three reports by the Council were presented for discussion. They were on quite separate subjects, but they had in common some aspect of the relations between members of the Society —either individually or as branches—and the Council.

In the discussion on proposals for revising the Constitution of the Society, for example, the feeling of the meeting revealed itself in an anxiety lest, under the guise of "maintaining the honour" of the profession, the Council was in effect proposing either to widen the range of offences that might be the subject of action by the Statutory Committee, or itself taking new disciplinary powers. Who was to be the judge of "honour," asked Mr. Blackwell of North London, and in asking it he obviously had the meeting behind him. Mr. Linstead explained that the Council was not tied to a particular form of words, and on the understanding that the recommendation would be revised and come before another meeting of Branch Representatives, it was not put to the vote. Safeguards were also demanded that a proposed Fellowship of the Pharmaceutical Society, replacing the present higher qualification, would not be used to admit persons to the Register otherwise than by examination. It was upon the proposal to add to the Council three pharmacists to be appointed by the Privy Council, however, that the feeling of the meeting was most clearly shown. Mr. Blackwell was again loudly applauded when he urged members to "guard this last privilege" of being able to elect their own Council, and not to allow anyone to bring new members on to it except through the ballot box. Mr. Linstead went into a lengthy explanation of the reasons behind the proposal, which he regarded as a "far-seeing attempt so to alter the Constitution as to give less ground for criticism while keeping control in pharmacists' hands." Again no vote was taken—distinctly a pity, in this instance, because, while the secretary's plausible argument found much support, other members, such as Mr. Andrew, Stockport, and Mr. Duncan, Irthlingborough, remained sceptical, and an indication of the strength of each side would have been valuable. Why make such an offer? asked Mr. Andrew. Because, replied the secretary, the alternative would be, not that the Privy Council would ask for three more members, but that the Government would demand a fundamental change. In matters of prophecy each must reach his own conclusion as to what is likely to happen, but it appears to us that gratuitously to invite further Privy Council intrusion is to substitute a very definite and immediate weakening of democratic control for a purely hypothetical and remote high-handedness by the Government of the day. If three, why not six, or twelve, or a majority of nominated members? The lower figure is as arbitrary as the others.

The proposed by-law to restrict canvassing by Council candidates (the subject of the second report) was rejected out of hand. Representatives were ready to admit that abuses had occurred under the existing system, but remained in the unshaken conviction that more evils would be created than remedied by the mode of action

uggested. The objections put forward, in act, were numerous and varied, and Mr. Walsh, Birmingham, who moved a resolution on the subject, was not to be inveigled by the secretary into accepting any weakening of its terms. "If anything else coincides with the resolution, then I accept that," he said, to the obvious approval and amusement of the meeting. The Council will, it is thought, now abandon any intention to introduce a by-law on the subject.

The third report considered at the morning Session had to do with the time of holding the Society's annual meeting. The Council put forward, without any real conviction that any of them would effect any improvement in the attendance each year, three suggestions. Representatives proceeded to make it abundantly clear that something much more radical was desired —nothing less, in fact, than to time the Branch Representatives' meeting so that members who were present at it would be on hand to attend the annual meeting. The view was embodied in a resolution put forward at the afternoon session by Mr. Flood, South-east London, and carried.

The new arrangement is of the highest importance. It will constitute a considerable stride forward in the organisational development of the Society. While greatly increasing the authority and status of the Branch Representatives' meeting, and making sure that more weight is given to its resolutions than has always been the case in the past, it will, on the other hand, improve the relations between Council and Branches, which have tended recently to become soured by suspicion or even by overt opposition. The Council has become "They" instead of "Us" to many members. One further change is necessary to make the reform complete. Admitting the wisdom of allowing Branch Representatives to speak freely throughout their own meeting, without intrusion upon their time by Council members, there is palpably a need for at any rate one Session at which members can listen to and compare the policies put forward by their elected representatives, instead of, as at present, hearing everything from the lips of a permanent official.

One possible drawback of the new timing has to be carefully considered, and its solution will not be easy, namely the severance of the Branch Representatives' meeting from the Conference proper. Fortunately steps were taken on September 17 to avoid committing the organisers to this course. While it may not prove possible to hold the Science Sessions in May, Mr. Linstead has made it clear that every effort will be made to do so; the attempt will even be made to permit members who wish to do so to attend both scientific and political sessions.

After gaining so much ground, the Representatives evidently began to feel that they had pressed the Council hard enough, for the expected opposition to the education changes at the afternoon session did not materialise, or at least was dissipated by the persuasive eloquence of the Society's secretary. Indeed, Mr. Linstead can seldom have been in better oratorical form. The new scheme was approved with acclamation after a discussion that took place throughout at a very high level. Afterwards, from hints by members, it appeared that some were in doubt whether they had ratified the scheme *in toto* or subject to some postponement of the three-year Qualifying course. However, the point may be academic, for the Council, while anxious to secure the necessary powers, is likely to be wary of implementing them too precipitately, and will observe carefully the effect of each step before passing to the next. If the number of entrants to pharmacy should suffer, members may expect modifications in the scheme. One suggestion put forward by Mr. Linstead received, in our view, insufficient notice, namely the idea of making pharmacists a master class, with something akin to slave (or at least blind-alley) labour, beneath them. However attractive this proposal may appear, its implications require to be more closely examined from a number of angles before this new class is created.

The meeting subsequently suffered something of an anticlimax. When the resolutions tabled by Branches came to be considered, there was no spokesman for the first, and some of the remainder appeared unreal in the light of the decisions already taken. The full report is held over.

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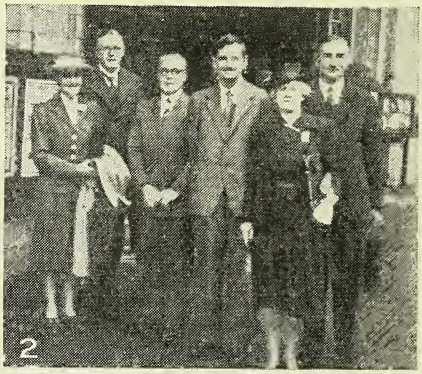

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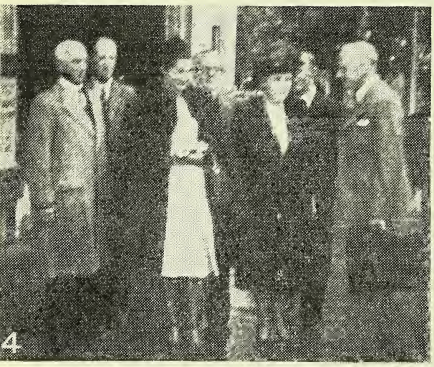

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CONFERENCE SNAPSHOTS

1. Local organiser-in-chief: Mr. H. Holmes (chairman, local committee).
2. Group including Mr. G. R. Knox Mawer; Mr. J. McGregor; Dr. K. Bullock; Miss M. C. Islip; Mr. Hugh N. Linstead, M.P.
3. Professor Peter H. L. Lee, Chengtu, with Mr. H. Burlinson.
4. Mr. Peter Irvine, Mr. F. W. Gamble (at rear); Mme. H. Cellier; Mrs. Jean K. Irvine; Mr. B. A. Bull.
5. Madame H. C
6. Messrs. J. F. and W. J. Tri
7. Group includi Mrs. H. C. Howells, H. C
8. Mr. S. Rohat
9. Messrs. W. J. McGregor
10. Mrs. F. G

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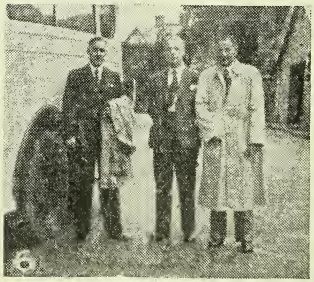

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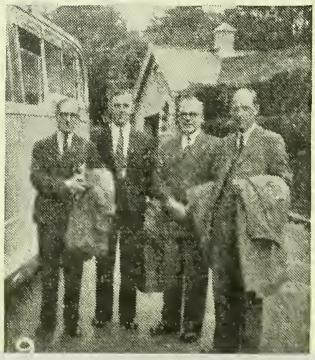

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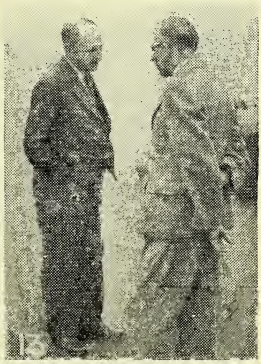
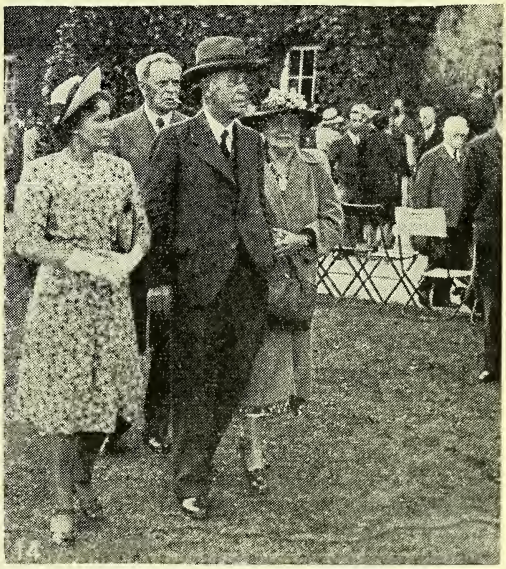
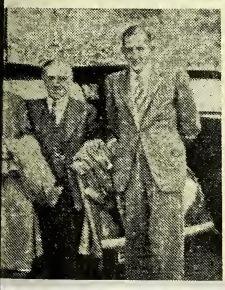
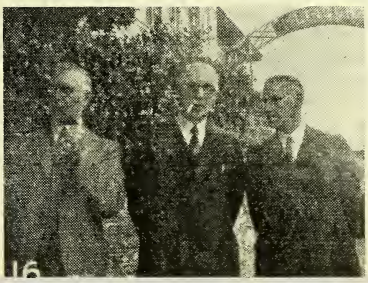
Mr. F. G. Wells, Dr. J. Coutts.

11. Some guests at the garden party.
12. Dr. G. R. Boyes with Mrs. Boyes.
13. Professor H. Berry and friend.
14. A Scottish group at the garden party.
15. Messrs. H. E. Chapman, W. S. Howells and F. C. Wilson.
16. Messrs. P. R. Duncan, Granville Shaw and J. F. McNeal.
17. Dr. I. R. Fahmy, Cairo, with Professor P. H. L. Lee, Chengtu, China.









BRITISH PHARMACEUTICAL CONFERENCE 19

SOCIAL EVENTS OF THE WEE

Garden Party

The Tuesday afternoon Science Session was curtailed to permit everyone to accept the invitation of the mayor and mayoress to a garden party in the grounds of Torre Abbey. Unlike the 397 prisoners who in 1588 were captured from the galleon *Miestra Senora del Rosario,* the visitors found their brief incarceration in the monastic tithe barn an entirely pleasurable experience, with the prison fare uncommonly toothsome. Marshalled afterwards into the gardens, they posed for the official Conference photograph before wandering at will over the 17th century manor house with its galleries of paintings and old prints. A few privileged ones were shown into the richly carpeted ballroom to see the treasured indent, written out and signed by Lord Nelson, for wines for the fleet. By previous invitation, the president of the Society (Mrs. J. K. Irvine, M.B.E.) conferred with the women pharmacists present, and the Conference chairman met the students and overseas visitors.

Conference Excursion

After Thursday's luncheon, Conference members set out in fifteen Grey coaches to "embrace the cream" (to use the words of the Conference booklet) of the natural glories of the West Country. They were themselves embraced by a cream of mist that thickened towards Princetown, blotting out the warehousing departments of the famous gaol and leaving only the bell and gateway, with its ironic appeal for clemency to the Napoleonic vanquished, to be seen. Visibility fortunately never became so poor as to cloud the brilliant scarlet of the prevalent *Pyrus aucuparia* (rowan or mountain ash according to the location of one's branch), yet veiled the landscape in mystery enough to permit the more imaginative the delight of conjuring up Uncle Tom Cobley at a signpost directing to Widecombe or, just to prove the Devonian's open mind, to Widdecombe. Ticking off the sights in the booklet was not wholly a profitable occupation, and some of the visitors must continue to take it on trust from the dictionary that a cromlech "consists of two or more unhewn stones fixed upright in the ground, supporting a large flat stone in a horizontal position." When a recorded object duly appeared, like the stone-stabbed clapper bridges, applause was spontaneous. The most notable landmark on the retu journey was unlisted: the stone brid which, having been roughly handled American troops during the recent war, w subsequently rebuilt by the Devon Cour Council to an even narrower roadway th of yore, leaving only two inches' clearan for the coaches as they half-inched th way across. Botanically-minded passeng took advantage of the hold-up to gath *Vaccinium Myrtillus* (bil-, blae- or whort berries) or the local bell heather—beautif certainly, but definitely not Scottish. The being no other hold-up, the tourists we redelivered at the Town Hall, Torquay, time for dinner and the evening's event.

Conference Ball

The Conference Ball, which was held Torquay Town Hall on September 17 fro 9 p.m.-2 a.m., was opened by a presentatic of bouquets to the mayoress (Mrs. A. Allams) and the deputy-mayoress (Mr T. J. Reeves-Taylor) by Miss Anne Eva (daughter of Mr. T. D. Evans, M.P.S., se retary of the Conference local committee and Miss Anne Jessop (daughter of M J. C. Jessop, M.P.S., a member of the loc Branch). Winners in a Benevolent Fun draw held during the evening were Messr R. F. Parker, Paignton; W. J. Ford, Babba combe; Mr. Dall, Torquay, and W. I Brighten, Moor Park, Herts; Miss E. Hodg kinson, West Worthing; Messrs. J. I McNeal, Amersham, Bucks; W. Branc Torquay; W. P. Ferris, Dartmouth; R McAdam, Glasgow; C. Gibbs, Paignton Langford, Dartmouth; A. Frowse, Dittis ham; Nadine Pier, Torquay; W. A. Cloud Torquay; C. A. Noble, Edgware, Middle sex; T. Shooter, Leeds; W. Shute, Paign ton, and D. Fry, Torquay; Miss M. Fox Torquay, and Miss Catherine Portnell Wells, Somerset.

Café Continental and Presentations

As one of a series of "surprise items" a a café Continental on the last evening o the Conference, the Conference chairmar (Mr. B. A. Bull) brought to the microphone Dr. F. W. Crossley-Holland, a forme chairman of the Conference, to expres thanks informally to the local organisers o "one of the most outstanding meetings in Conference history." Torquay, said Dr. Crossley-Holland, was one of the smallest branches, but its effort had been one of the

atest. Out of a fund to which every mber of the Conference had subscribed then announced a number of presentans, which Mr. Bull made. A silver saucet was presented to Mr. H. Holmes, airman, local committee) and Mrs. lmes; an engraved rosebowl to Mr. E. J. werman (vice-chairman) and Mrs. Bowern; a silver teapot to Mr. T. D. Evans cretary) and Mrs. Evans; an engraved tray to Mr. W. H. Wyatt (treasurer) and silver teastrainer to Mrs. A. McMannes airman, Ladies' Committee), who as ought to the platform by a "bodyguard" nsisting of Messrs. H. E. Chapman, R. R. nnett, C. H. Hampshire and H. Humreys Jones. On behalf of all Mr. Holmes anked the Conference, adding an appretion of the help given by the mayor and rporation of Torquay.

During the proceedings it was announced at a Benevolent Fund draw organised at e previous evening's Ball had realised £94 1s. At the suggestion of the Society's vice-president (Mr. H. C. Shaw), a sixpenny levy was made on those present, bringing the total to £103 2s. Dancing followed until 1 a.m.

Sport

The results of a competition for the Edmund White golf trophy, held at Torquay during the Conference, were as follows:—Mr. A. Jackson (12) 75; Mr. J. C. Bosanko (18) 76; Mr. H. Burlinson (13) 77; Mr. A. W. Bull (15) 80; Mr. H. S. Hibbens (18) 80; Mr. S. B. Andrew (18) 83; Mr. J. Frost (16) 83; Mr. L. Marsh (15) 85. Mr. A. Jackson, Paignton, was the winner.

The teams for the London Challenge Cup in a bowls competition were as follows:—*Scotland:* Messrs. R. Graham, J. Anderson, A. A. Meldrum and W. Spence Culbert (skip); *England:* Messrs. E. A. Briggs, J. Reid, J. F. McNeal and G. Gardiner (skip). The result was: England 29, Scotland 15.

CLOSING SESSION

HE Closing Session of the Conference was ld on September 19, Mr. B. A. Bull in e chair.

THE CHAIRMAN called upon Mr. H. eves Brown (joint secretary) to read the ghty-fourth annual report, and on Dr. R. Boyes to read the treasurer's report.

nnual Report

The following items are included in the nual report of the Executive:—The exrimental inclusion in the Conference ogramme of a Symposium Session, which gan last year, has been retained and has ain been of great value to all.

The Executive record with deep regret e death since the last meeting of a viceresident, Dr. David Hooper, who was predent of the Conference at the London eeting in 1916, and of a vice-chairman, r. J. H. Franklin, who occupied the chair the Manchester meeting in 1931. Among her prominent members of the Conference hose deaths have been announced during e year are Dr. J. J. Blackie, Mr. P. F. owsell, Mr. L. Moreton Parry and Mr. W. Gray (president of the Pharmaceutical ociety of Northern Ireland).

No Conference research list is for the resent being published. The subcommite appointed to review aspects of the list as continued its investigation of the possility of affording potential research workers more assistance than has hitherto been attempted.

From its inception the Conference has had as its primary object the promotion of pharmaceutical research. The Executive anticipate that opportunities for the extension and co-ordination of pharmaceutical research will arise as a development of the reorganisation of the medical services now taking place under the National Health Services Act, 1947, and they are giving careful consideration to the manner in which the Conference can most effectively participate in any such future developments.

Twenty-seven papers were submitted and twenty-six were accepted for presentation and discussion at the Science Session. The Executive thank the authors for their contributions to the work of the Conference.

The subscriptions to the Corfield Memorial fund amounted to £500. It is intended that the awards from the fund shall be made primarily on the basis of a meritorious contribution to the Conference and preferably in the field of pharmaceutical chemistry. The Executive are of the opinion that at this time the opportunity should be taken to define more precisely the relation of the Conference to the Society, but does not anticipate that the inclusion in the Society's constitution of a reference to the Conference will entail any change in the functions or objects of the Conference.

Nominations for Officers

The Executive has nominated the following officers for 1947-48:—*Chairman:* Dr. N. Evers, *Vice-presidents:* Messrs. E. Saville Peck and C. A. Hill; *Vice-chairmen:* Messrs. F. W. Gamble, R. R. Bennett, C. H. Hampshire, F. W. Crossley-Holland, H. Deane, H. Humphreys Jones, A. R. Melhuish, T. E. Wallis, H. Brindle and B. A. Bull; *Treasurer:* Mr. G. R. Boyes; *Secretaries:* Mr. H. Treves Brown and H. G. Rolfe. *Other members of the Excutive:* Messrs. H. Berry, J. C. Hanbury, F. Hartley, T. Marns, R. Maxwell Savage and H. Davis, with Miss M. C. Islip and Messrs. E. A. Brocklehurst and H. C. Shaw nominated by the Council of the Pharmaceutical Society.

If these nominations are approved the above persons will be the officers of the Conference, together with the following *ex officio:—President,* the president of the Pharmaceutical Society of Great Britain. *Other members of the Executive*—The president of the Pharmaceutical Society of Ireland, the president of the Pharmaceutical Society of Northern Ireland, the chairman of the North British Executive of the Pharmaceutical Society of Great Britain, the chairman of the local committee and the local secretary.

To the great regret of the Executive, Dr. G. R. Boyes has expressed a wish to relinquish the office of senior secretary and Mr. T. Marns has resigned the office of treasurer. Dr. Boyes was elected an Honorary General Secretary in 1929 and has therefore held this office for the record period of eighteen years, one year longer than the late Mr. C. E. Corfield.

An invitation would be presented, the report continued, on behalf of the Brighton, Hove and District Branch of the Pharmaceutical Society for the conference to meet at Brighton in 1948. The Executive were grateful to the members of that Branch and the Mayor and Corporation of Brighton for their offer of hospitality. Several other Branches of the Society have intimated their desire to entertain the Conference as soon as circumstances permit. If hard facts necessitated the curtailment of attractive programmes of social events, experience during the war years gave ground for believing that the scientific work of the Conference would not necessarily suffer.

Treasurer's Report

The accounts for 1946 show that the income from subscriptions paid by elected members was £70, and in addition a co position fee of £25 was received under R 2 from the Pharmaceutical Society Northern Ireland. These amounts ha been credited to the account of t "Quarterly Journal." The general expen of the Conference were £173. Th figures were included in the Pharmaceuti Society's Financial Statement presented the Society's Annual Meeting in May 19 The total amount expended includes pa ment of the deficit on the 1945 Conferen amounting to £46, and allowing for t payment the expenditure is £28 more th last year.

Apart from these figures the Conferen Balance Sheet shows on the assets side Co sols to the nominal value of £1,25 savings bonds to the value of £200, a cash at the bank amounting to £332.

On the proposals of Mrs. Irvin seconded by Mr. H. C. Shaw, the repo were accepted by the Conference.

Mr. J. Anderson proposed a vote thanks to the Mayor, deputy Mayor, ar Corporation of Torquay and the loc Conference Committee, which was seconde by Mr. E. A. Brocklehurst. The Chai man, in augmenting the remarks, describe the provision by the local committee of con plimentary tickets for certain young members as "a wonderful innovation."

The chairman announced that a cabl of best wishes for the Conference had bee received from Mr. C. W. Maplethorpe o board the "Queen Elizabeth."

Mr. A. D. Powell proposed and Dr E. A. Hersant seconded that the officer nominated by the Executive should b appointed, and the motion was carried wit acclamation.

Mr. P. K. Sanyal proposed a vote o thanks to the mayor and corporation o Torquay and to the local committee on behalf of overseas members, seconded b Mr. S. Rohatgi.

Mr. Donald Hudson (chairman, Brigh ton, Hove and District Branch of the Phar maceutical Society) conveyed an invitatio from his Branch that the Conference i 1948 be held at Brighton from August 3 to September 4. The invitation wa seconded by Mr. Arch Wilson, and wa later accepted with acclamation on the proposal of Mr. R. R. Bennett, seconded by Mr. B. W. Mann.

A vote of thanks to the chairman, proposed by Dr. H. Hartley, and seconded by Dr. R. Maxwell, was carried by prolonged applause, all members standing.

RITISH PHARMACEUTICAL CONFERENCE 1947

UTHORS OF THE SCIENCE PAPERS

Miss Hazel Williams, who is co-hor with Dr. Wokes of a paper on the fluorimetric assay of aneurine, took the London B.Pharm. degree in 1938 and qualified as a Pharmaceutical Chemist in 1939. After serving on the staff of the Prince of Wales General Hospital, Tottenham, she was appointed assistant pharmacist at the Elizabeth Garratt Anderson Hospital in 40. In 1945 she was appointed to the ff of the Ovaltine research laboratories here she has since been engaged in re-arch (for a Ph.D. degree) on physico-emical methods of assay of vitamins in tural products.

Mr. Frank Wokes, Ph.D., B.Sc., co-thor with Miss Williams of the paper (see above) on the fluorimetric assay of aneurine, was a Jacob Bell Memorial Scholar, 1912-14. After serving with the Royal Army Medical Corps in Mesopotamia, 1916-20, he took up his studies at Liverpool University, gaining an honours B.Sc. degree in chemistry and biochemistry in 1922. He ontinued his studies in biochemistry under rofessor Ramsden and studied bacterio-gy with the Liverpool City bacteriologist. rom 1924 to 1927 Dr. Wokes was secre-ary of the Liverpool Chemists' Associa-on, meanwhile conducting research on itamins and related subjects with Dr. Villimott and others at Liverpool and ambridge Universities. In 1927 he ppointed assistant pharmacologist and iochemist at the College of the Pharmaceutical Society, and in 1941 became director of the Ovaltine research laboratories.

Mr. P. K. Sanyal, who, with Dr. T. E. Wallis, is the author of a paper dealing with European and Indian valerians, is a B.Sc. of Calcutta University and a B.Sc. (pharmaceutical chemistry) of Benares Hindu University. He has also taken the post-graduate Ph.C. diploma of Benares Hindu University. Mr. Sanyal has acted in an advisory capacity to a number of chemical companies in India and, until he came to England, was public analyst of Calcutta. He is a Fellow of both the Linnean Society and the Royal Microscopical Society, and is at present working under Dr. Wallis in preparation for a Ph.D. degree.

Mr. C. Daglish, B. Pharm. (Lond.), Ph.C. (author of a paper on the adsorption of aneurine) has been engaged for several years on vitamin and similar work in Canada and Britain. A Jacob Bell Memorial scholar in 1936, Mr. Daglish graduated B.Pharm. in 1938. In the same year he conducted research on the chemical assay of ergot, and in 1941, after serving for a short time as an assistant pharmacist at the Royal Northern Hospital, Holloway, London, N.7, emigrated to Windsor, Ontario, as chief chemist to Gelatin Products, Ltd., where he was engaged in vitamin control work and research. He collaborated with the Department of Chemical Warfare, Ottawa, on poison gases and anti-gas preparations, and with the Faculty of Medicine (McGill Uni-

versity, Montreal) on the production of oral forms of penicillin, and enteric capsules. In 1946 Mr. Daglish returned from Canada to Britain to join the staff of the Ovaltine Research Laboratories.

Mr. W. A. Woodard, M.P.S. (author of a paper on crystalline sodium penicillin G) has had a varied pharmaceutical experience in a number of countries, and is at present engaged with Glaxo Laboratories, Ltd., Greenford, developing new pharmaceutical products, including those containing penicillin. After qualifying as a chemist and druggist in 1929, he was appointed an assistant pharmacist at St. Thomas's Hospital, London, and in 1935 went to the Royal Southern Hospital, Liverpool, as pharmacist in charge. In 1939 he was appointed to the technical research staff of Messrs. Glaxo.

Mr. W. F. Elvidge, Ph.D., B.Sc., F.R.I.C. (author of papers on the assay of jaborandi alkaloids and of vitamins B_1 and B_2) has been associated throughout his professional career with Boots Pure Drug Co., Ltd., Nottingham. He joined the company's scientific staff in 1917 as a junior assistant in the laboratory devoted to the development and control of pharmaceutical specialities. In 1930 he was appointed manager of the laboratory and in 1932 became the company's deputy chief analyst. In that post he was engaged in research and development work connected with analytical control. Mr. Elvidge graduated at London University in 1922, after studying at the University College, Nottingham; became an Associate of the Royal Institute of Chemistry in 1926, and passed the F.R.I.C. examination in Branch E in 1929. In 1941 he was awarded the Ph.D., London, for a thesis on "The Application of Absorption Spectrophotometry to Pharmaceutical Analysis," much of the work being given in papers to British Pharmaceutical Conferences.

Mr. D. K. Santra, M.Pharm. (Benares Hindu University), co-author with Dr. T. E. Wallis, of a paper on the determination of clove stalk, has come to Britain, on a Government of India scholarship, for higher studies in pharmacy, and is doing research work in the pharmacognosy laboratories of the College of the Pharmaceutical Society, University of London, in preparation for the degree of Doctor of Philosophy.

Mr. F. P. Handisyde, one of the authors of a paper on the analysis of papaveretum, worked for a period in the research laboratory of the British (Non-ferrous) Mining Corporation before joining the staff of J. Lyons & Co., Ltd., as a junior chemist. With Messrs. Lyons he became familiar with many branches of food analysis and laboratory technique, studying meanwhile at Birkbeck College and Battersea Polytechnic. In 1942 Mr. Handisyde joined the staff of Roche Products, Ltd., Welwyn Garden City, where he has specialised in the analysis of vitamins and alkaloids.

Mr. F. Hartley, Ph.D., B.Sc., F.R.I.C., Ph.C., author of a paper on parachlorophenyl α glycerol ether, is a director of The British Drug Houses, Ltd., London. A John Bell scholar in 1930, he passed the Pharmaceutical Chemist examination in 1932, after studying at the College of the Pharmaceutical Society, and in the same year was awarded silver medals in pharmacy, pharmaceutical chemistry, and pharmacognosy. In the period 1932-39 he served as demonstrator and lecturer at the College, graduating B.Sc. (Lond.) (special chemistry) in 1936, with first-class honours. In 1940 he was appointed chief chemist and factory manager of Organon Laboratories, Ltd.; in 1943, secretary of the Therapeutic Research Corporation; and in 1946, scientific services manager to The British Drug Houses, Ltd.

RITISH PHARMACEUTICAL CONFERENCE 1947

SYMPOSIUM SESSION

NTRODUCING the second annual symposium ssion to be held by the British Pharma- utical Conference, MR. B. A. BULL (chair- an) said that the idea behind a symposium ssion was to bring together the knowledge nd experience of a number of people on he subject. The success of the session epended on the number of contributors.

Emulgents and Ointment Bases

BY A. W. BULL, Ph.C.

[ABSTRACT]

I SHOULD like to emphasise that an under- tanding of the theory and fundamental rinciples is necessary if the new emulgents hich are now becoming available are to e used to best advantage by the pharma- ist with the minimum of effort. Manu- acturers and distributors of emulsifiers, intment bases and other surface active aterials should indicate the type of pro- ucts they are selling and provide as much etail as possible of their chemical and hysical constants. Particularly in some lasses the commercial products are by no neans pure substances. The approximate omposition of one commercial variety of lyceryl monostearate, for example, has een given as stearic esters of glycerin 75 er cent., of which approximately 50 per ent. is the monostearate, soap about 5 per ent., and the remainder unchanged acid, lycerin and water. This particular variety f glyceryl monostearate is described as elf-emulsifying and it is to give it this roperty that the soap is present. There s often an optimum working temperature or most emulsifiers and in considering formulas this should be borne in mind. With certain emulsifiers which consist of partially sulphated fatty alcohols there is evidence of decomposition with lowering of *p*H in the resulting ointment base if it is exposed to too high a temperature. Many non-ionic surface active agents and emulsi- fiers such as the sorbitol and mannitol esters of oleic, palmitic and stearic acids and the ethylene oxide condensation products derived from them, are coming into increas- ing usage, particularly in the U.S.A. Carbowaxes, polymers of ethylene glycol, vary in consistency from unctuous material to hard waxes according to the degree of molecular weight and of polymerisation. They are water soluble and are also sol- vents for certain medicaments.

Ointment Bases Reviewed

BY J. W. HADGRAFT, Ph.C., A.R.I.C.

[ABSTRACT]

New ointment bases discussed were classi- fied as follows:—

1. Anhydrous bases containing a water-in-oil emulgent (e.g. ointment of wool alcohols, B.P.). 2. Hydrous bases consisting of water-in-oil emulsions (e.g. hydrous oint- ment, B.P.). 3. Anhydrous bases containing an oil-in-water emulgent (e.g. mixtures of paraffins and an emulsifying wax such as Lanette wax SX). 4. Hydrous bases consisting of oil-in-water emulsions (e.g. creams prepared with Lanette wax SX). 5. Water-soluble hydrous bases (e.g. gels prepared from methyl cellulose). 6. Water-soluble wax bases (e.g. polyethylene glycol, or the Carbowax series).

These new bases have enabled the phar- macist to formulate preparations having a range of physical properties which offer greater scope to the dermatologist in the topical treatment of diseases and other con- ditions of the skin.

The effectiveness of an ointment base in promoting skin penetration is difficult to investigate experimentally, for variations in skin texture and the active medicament used may both have an effect. Work con- ducted by MacKee, Herrmann and Karp in 1945 on the treatment of ringworm of the scalp, in which it is necessary to obtain penetration of a fungicide down the hair follicle, has given rise to a solution contain- ing cetyltimethylammonium pentachlor- phenate 2.5 per cent.; alkylbenzene sul- phonate 5 per cent.; phenazone 12.5 per cent.; propylene glycol 10 per cent.; sul- phonated castor oil 10 per cent.; and dis- tilled water. The *p*H was adjusted to 4 by the addition of citric and propionic acids. In addition the treatment included the use of an acid shampoo containing alkylbenzene sulphonate and sulphonated castor oil.

A modification of the same vehicle was used as the solvent for sulphur by MacKee, Wachtel, Karp and Herrmann in 1945 for the treatment of acne vulgaris. The formula was as follows: Sulphur 7.5 gm.; sodium alkybenzene sulphate 110 gm.; phenazone 54 gm.; triethanolamine 100 gm.; propylene glycol 560 gm.; and water 168.5 gm. It is probable that interaction occurs between the sulphur and triethan- olamine with formation of an active and

soluble polysulphide. The results indicate that the addition of surface active compounds to aqueous vehicles promotes skin penetration.

The product obtained from the formula of the Sixth Addendum for ointment of wool alcohols is too hard to provide a satisfactory ointment base, unless the medicaments to be added are of such a nature as to soften it. For this reason, the Seventh Addendum allows the proportions of the paraffins to be varied and the liquid paraffin to be substituted wholly or partly by light liquid paraffin. The following modification suggested by Michaels has been found to provide a more satisfactory ointment base:—

Wool alcohols	60 gm.
Hard paraffin	170 gm.
Soft paraffin	170 gm.
Liquid paraffin	600 gm.

Difficulty has been encountered when attempts have been made to incorporate certain medicaments in hydrous ointment. Phenol, in concentrations above 1 per cent. has been found to cause immediate separation of the aqueous phase; mercurous chloride 20 per cent. causes separation of the aqueous phase after three days; and both water-soluble and oil-soluble samples of ichthyol in a concentration of 5 per cent. produced preparations which separated after three days.

The following medicaments produced ointments which have shown no separation on storage: mercury oleate 25 per cent.; glycerin of lead subacetate 180 gr. in 480 gr.; menthol 1 per cent.; oil of cade 2 per cent.; salicylic acid 2 per cent.; menthol 1 per cent. and salicylic acid 2 per cent.; balsam of peru 40 gr. in 480 gr.

The most commonly used example of an anhydrous oil-in-water base is known as "Halden's Emulsifying Base," and has the following composition:—

Liquid paraffin	3
White soft paraffin	2
Lanette wax SX	2

The usefulness of emulsifying wax is due to the preparation's wide range of compatibility and the wide variation in the proportions of the aqueous and oil phases it will combine into stable emulsions.

Discussion

The Conference Chairman said he had observed that copious notes were being taken during the reading of the papers, indicating a queue for the rostrum. The following comments had been left with him by Mr. A. R. Chamings, who had had to leave the Conference: It was unfortuna that war-time investigations in this cou try on emulsifying agents revealed conside able variation in physical properti Recently there had been improvemen and in considering results the post-w qualities should be borne in mind. Tl most satisfactory results are obtained, l said, at temperatures just sufficiently abo the melting points of the ingredients of preparation to give a homogeneous resul Too little attention had been given to th alginate type of emulsifier, and to the nee for close collaboration between pharmaci and dermatologist. As cap-liners for ja of ointments containing much water, h advised polythene discs.

Opening discussion from the floor, Mr T. D. Whittet made an appeal to pha macists, particularly those in hospitals, t co-operate with dermatologists in th choice of base, which was as important a the choice of medicament. The base shoul be selected according to whether the ai was action at the surface, minimum absorp tion, emollient effect or systemic absorp tion. Mr. Whittet supported the further ex amination of the cellulose derivatives an gave an example of an improved formul for benzyl benzoate which Dr. Mellanby ha adopted. There were two groups of these derivatives: (a) Cellophas WLD, which was described by the makers as the ether of a cellulose, and which appeared identical to Bayer's Tylose; and (b) Cellophas WFZ, which was identical with PMB 444. Examples of the differences between them were that one reacted with acriflavine and the other did not. Promulsin, another emulgent, differed from both. A jelly, said Mr. Whittet, might be found more useful than an oily preparation; for example, methyl salicylate was better absorbed from such a jelly. A methyl violet preparation in water-soluble base of the H. E. B. type had been formulated that was almost non-staining. He asked whether the authors had encountered any temporary reduction of viscosity at stages in preparing emulsions with these emulgents.

Mr. Gillham, Leeds, said the introduction of the B.P. ointments based on ointment of fatty alcohols had raised many problems for manufacturers, of which he gave a number of examples, such as sulphur ointment, which yielded a product that, in the language of Ecclesiastes, "stank." His experience was that ung. zinci aquos. was not being greatly prescribed. The im-

rtance of temperature control was borne t in penicillin cream, for making which had found 42° C. the best temperature, hough a good product could be made in e cold.

Mr. W. R. Howard, Hornchurch, raised e question of preservatives, which were portant on a manufacturing scale. It ould be found that the benzoate type fun-stats were most effective, he thought, hen *p*H was slightly on the acid side. He ferred to the confusion which existed over e varieties of cellulose emulsifiers, and entioned that the Tylose type became less luble as the temperature increased, and ight react with certain medicaments in ixtures. Polyvinyl alcohol, sometimes used an emulgent, was not inert, and might ontain anything up to 5 per cent. ketonic roups. He mentioned that volatile emul-ents, such as ammonia, were used echnically.

Mr. L. M. Spalton, Loughborough, greed with Mr. Whittet that co-operation etween the pharmacist and the dermat-logist was highly desirable because the nal decision on the formulation of oint-nent bases must be made as the result of rials on the patient. Co-operation, he uggested, need not be limited to hospital harmacists but might, with advantage, be xtended to retail pharmacists in localities erved by dermatologists who were in-erested in the use of modern ointment bases. Pharmacists could also play a significant part in laboratory investigations in which onditions of the skin were reproduced as losely as possible. Ointments designed to give protection against occupational derma-itis (barrier creams) formed a widening field for pharmaceutical investigation.

Penetration of an ointment, which took place into the skin after application, was desirable, but absorption was usually un-desirable, sometimes causing poisoning. Factors affecting penetration included the thickness of the stratum corneum; whether the skin was oily or not; the type of oint-ment; and the way in which it was applied (i.e., to what extent it was forced down the hair follicles). The incorporation of wet-ting agents might facilitate the penetration, as the hair follicles were full of fatty matter. The drying effect of these agents might, however, be undesirable. In America there had been tried organic solvents which gave penetration to the root of the follicle. The drying effect, again, might be an objection.

Other factors which affected penetration of ointments were the solubility of the drug in the vehicle, and particle size. There was scope for study on the fate of an oint-ment base when applied (such as the com-bination with the sebum on the skin as with boric acid). The *p*H of the skin (nor-mally slightly acid) played an important part. If the skin were made alkaline the stratum corneum swelled, allowing greater penetration, but irritation might be caused. A stumbling block in all that type of oint-ment-research was that the injured or pathological skin was not being used.

The pharmacist had further scope in studying the effect of ointment bases on bacteriostatic and fungistatic drugs.

Replacing Proprietary Bases

Professor H. Berry, protesting against pharmacists having to use substances which were of unknown composition and liable to variation, quoted as examples glyceryl monostearate (as Tegin and Tegacid), and Lanette wax SX. For the first time, cer-official preparations contained a propri-etary substance—Lanette wax SX—and were therefore at the mercy of the manufacturer. The composition of Lanette wax was known to have altered; sometimes, in fact, it had been phosphated and sometimes sulphated. On account of difficulties with the supply of raw materials, the B.P. Commission had, however, been forced into using the preparation.

Lanette wax SX was prepared from a mixture of higher fatty acids and alcohols, which was made by splitting coconut or whale oils and reducing the fractions so obtained to the alcohols. As the oils varied, the alcohols and the final product, Lanette wax SX, varied also. Lanette wax SX contained, in addition, the sodium salts of sulphated alcohols. Professor Berry under-stood from the manufacturers that S stood for sulphated and X for 10 per cent. sul-phated alcohol.

Sulphated lauryl alcohol of commerce contained 26-30 per cent. of sodium sul-phate. This was useful in the dyeing industry, but made the product impossible for use in certain types of pharmaceutical preparations. If we could get sodium lauryl sulphate reasonably pure and free from sodium sulphate, Professor Berry said, we could make a Lanette wax SX and control its properties.

Recently a reasonably pure sodium lauryl sulphate had been marketed, and by blending this with steryl alcohol in the ratio of 9 : 1 an emulsifying wax could be produced as good as Lanette wax SX; it was

constant, and would not give varying results in compounding. Moreover, a wax could be prepared which would not go acid on autoclaving. He suggested that many of the difficulties concerned with change of the *p*H of penicillin cream base on sterilising could be eliminated by careful control during the manufacture of Lanette wax SX and by avoiding overheating.

The ratio of 9 : 1 in the ingredients of the emulsifying wax mentioned was based on the results of research published in Germany and Britain, and it indicated the optimum relation between the alcohol and sodium lauryl sulphate. Sodium lauryl sulphate could be replaced by sodium steryl sulphate; sodium cetyl sulphate; or the corresponding derivatives of the cut obtained in cracking certain oils. The derivatives of the higher alcohols gave stiffer preparations, and those of the lower alcohols, softer preparations — almost self-emulsifying at room temperature.

In the future there would ge a great use for sodium lauryl sulphate, he said. He advised pharmacists to learn the properties of these compounds, and their compatibilities. Acriflavine, for example, formed an insoluble compound with a definite composition, and the dispensed preparation became increasingly unstable. The precipitate dissolved with excess of sodium lauryl sulphate, but the bacteriostatic properties of the preparation were probably altered.

Criticising the formulas of the aqueous ointments of the B.P., he said that they had been included in the Pharmacopœia in response to a request by the Minister of Supply to conserve paraffins. If dermatologists did not require the formulas, the reasons for their existence disappeared with the improved supply position. Soft paraffin was the cause of much trouble when attempting to obtain consistency in results. The B.P. did not control an important pharmaceutical factor—the consistence of soft paraffin. The U.S.P. had attempted a simple control of the thixotropic factor by means of a weight penetration into the mass.

Mr. A. G. Fishburn, Manchester, said that the incompatibility of acriflavine with sodium lauryl sulphate was part of a general phenomenon—that of anionic substances being incompatible with cationic substances. In pharmaceutical preparations of this type the therapeutic agent was usually anionic, and the emulgent cationic (or nonionic or a mixture of cationic and nonionic). Dyes came in this category and formed, therefore, non-visible incompatibilities. These preparations had proved t be bactericidally inert. Cetyl trimeth ammonium bromide and soap was a example of a cationic therapeutic agent i an anionic medium. Care should be take to ensure that the therapeutic agent an the medium were either both anionic o both cationic. Calling for greater contro of sulphated alcohols, Dr. Fishburn sai that these products were usually prepare and standardised for the textile and pape industries, and that it was not usual t fractionate whale or vegetable oils. Th pharmaceutical industry, however, required much more. Sulphation and phosphation were difficult to control, and it was doubtful if such a complete standardisation would ever be devised for these preparations, as had been for, say, sulphanilamide.

"Quickies"

In response to Mr. B. A. Bull's invitation for short questions, which he called "quickies," Miss D. Morgan, Harrow, asked to what extent the retail pharmacist could help the patient by giving advice on the correct method of applying ointments.

Dr. Foster said that a quick way for the retail pharmacist to check the *p*H of penicillin-cream base was to add a little distilled water to a sample of the base, stir, and add a few drops of methyl red solution. If the resulting colour were yellow the *p*H was suitable, but if the colour were red the *p*H was too low.

Mr. S. G. E. Stevens, London, pointing out that the rate of stirring in manufacture made a profound difference to the product, suggested that problems of variations in emulsions made by hand in a mortar might cause difficulties with patients.

Mr. A. W. Bull, winding up, agreed that cap-liners made of polythene were excellent for creams made with the newer emulgents; they had the disadvantage of loosening more readily in storage. Thixotropy certainly played a big part in complicating manufacture. In processing with sulphanilamide he had found that a fine, smooth powder could become gritty by partial solution and crystallisation. Arising from a point made by Professor Berry, he pointed out that water was often necessary in emulsifiers.

Mr. Hadgraft also replied.

Declaring the Symposium Session closed, the Chairman (Mr. B. A. Bull) thanked the thirteen contributors to the symposium, in which, he said, many phases of the subject of emulgents had been dealt with.

SCIENCE SESSIONS

(*Continued from* THE CHEMIST AND DRUGGIST, *September* 20, *p.* 354)

Efficiency of Chlorocresol

Discussing a paper by Messrs. G. E. avies and J. E. Davison (see *C. & D.*, eptember 20, p. 354), DR. K. BULLOCK id the claimed superiority of the method emed to be based on traces of antiseptic ing washed away in the process. Was it ossible that germination of single spores, hich could not take place in the medium, ok place in the pores of the filter? Dr. ullock then suggested methods by which at could be determined. He also asked hether the authors' method had been pplied to preparations sterilised by heat reatment; in that way it should be possible o confirm the effectiveness of the authors' ltration technique. Quantitative records hould be supplied of the organisms found.

MR. T. D. WHITTET, London, said that he effectiveness of the accepted sterility est was of paramount importance to prac-ising pharmacists. It should not be dis-redited without justification. He urged hat wider tests should be carried out on naterial from other parts of the country nd offered to help in carrying out such ests. He did not believe there was any isk of gross contamination from the resent tests. MR. F. HARTLEY, London, aid that the paper's title was misleading.

PROFESSOR H. BERRY, London, said that f the findings of the paper were confirmed t would make necessary many changes in current pharmaceutical practice; but it was open to criticism, and the method might seem equally to discredit the efficiency of autoclaving. The two stages in the action of an antiseptic were adsorption and penetration. The organisms collected by the authors had probably been washed free of the absorbed layer. He suggested the method should be applied to pathogenic organisms and the product injected into animals; the organisms would probably not develop. The conditions described for the experiments were not normal; the tests should be repeated under normal conditions. MR. STEVENSON, London, cited as an example the difficulty of growing bacteria in a synthetic medium, which was what the authors had really been doing. Professor Hinshelwood had shown the necessity of "training" bacteria by subculturing three or four times. MR. R. M. SAVAGE, London, asked whether the filter pads had been exhaustively incubated.

MR. G. E. DAVIES, replying to the discussion, said Dr. Bullock's suggestions were being investigated but no results were yet available. He did not agree with what Professor Berry had said. The descriptions of the official sterility procedures should include a warning or definitely state the conditions under which they were reliable.

The next paper was read by Mr. C. M. Adamson.

Analysis of Papaveretum

BY C. M. ADAMSON, F. P. HANDISYDE AND H. W. HODGSON

[ABSTRACT]

WE decided to devise if possible methods suitable for the routine determination of narcotine, papaverine and codeine. We have not given special attention to the determination of morphine, since the methods are firmly established, but we prefer the British Pharmaceutical Codex procedure, one based on the pharmacopœial method for determining morphine in opium. No correction for lime is necessary and in our experience the method is more expeditious. Narcotine and papaverine in the suggested method are first extracted with chloroform in acid solution, the process being carried out in subdued light. Codeine is extracted from the aqueous residue by adding excess alkali, and extracting with benzene, and after purification is weighed. From the crude narcotine and papaverine extract obtained with chloroform, papaverine is extracted with benzene in alkaline solution, purified, and weighed. The narcotine remaining in the aqueous layer is extracted, and after treatment with hydrochloric acid and ammonia and chloroform, weighed. (From the analytical and research department, Roche Products, Ltd.)

Discussion

Opening the discussion, MR. BULL said the need for a standard preparation of the total alkaloids of opium called for a standard method of assay. MR. D. C. M. ADAMSON, replying to questions from Drs. Fairbairn and Evers, said chromatographic methods had not been tried. A complete analysis took two or three days.

d-Tubocurarine Content of Curare

By G. E. Foster and J. V. Turner

[Abstract]

Work described in the paper was undertaken with the object of developing methods by which the *d*-tubocurarine content of curare might be determined by chemical or physical means with speed and accuracy. *d*-Tubocurarine chloride was prepared from a series of samples of curare, and the yields of alkaloidal salt recorded. A tentative polarimetric method was developed for estimating the *d*-tubocurarine content of curare, and a tentative colorimetric method for estimating the total quaternary alkaloidal content of curare is described. A lævorotatory alkaloidal chloride has been isolated from one sample of curare. Analytical and pharmacological data are given for the salt. (From the Wellcome Chemical Works.)

Discussion

Mr. Bull said the process appeared to act as a good screening test and to indicate which samples were worthy of further negotiation.

Dr. G. E. Foster, replying to Mr. Hersant, said the figures given in his second table (given in the paper) referred to some of those in the first. In many cases corresponding yields had been obtained by the King process. He had found it possible to read the polarimeter to 1/200° with reasonable accuracy.

Dr. F. Hartley suggested that there might be substantial variation in the quaternary alkaloids present. Had there been any attempt to test the percentage of quaternary alkaloids against biological activity? He commented also on the variation in composition of the total alkaloids present.

Dr. Foster agreed that there was great variation in the composition of the alkaloids, and that a lot of useful information would be acquired by correlating the results of biological tests with the chemical figures. He advised anyone requiring curare to have a sample tested.

A Colorimetric Method for Jaborandi Alkaloids

By W. F. Elvidge

[Abstract]

Ekkert's colour test for pilocarpine has been studied, and modifications are suggested whereby it can be adapted for a quantitative colorimetric method using quantities from 1 to 5 mgm. The method recommended is as follows:—

Into a 25-mil graduated flask place pilocarpine solution followed by 1 mil 2 per cent. sodium nitroprusside soluti and 1 mil N/1 sodium hydroxide; all to stand at least three minutes. Then a 5 mils of N/100 potassium permangan followed immediately by 3 mils of 3N s phuric acid. Make up to 25 mils with d tilled water and read in a suitab colorimeter (for the Spekker absorptiomet use 4-cm. cells and Ilford spectrum gre filter 604). At the same time carry out t test on solutions containing 1, 2, 3, 4 a 5 mgm. of pilocarpine, together with blank. The pilocarpine content of t sample is calculated from a calibratic curve. Except for pilosine, the oth common alkaloids of jaborandi are equal chromogenic. (From the analytical labora tory of Boots Pure Drug Co.).

Discussion

Mr. N. L. Allport had sent a report o the method described to the Conference and this was read by chairman. Mr. Allpor confirmed the results of the author. He ha found the method specific but of about one third the sensitivity of a quantitative appli cation of the Pharmacopœia qualitativ test. The technique was, however, simpler

Dr. Elvidge replying to questions by Drs. Foster and Fairbairn said that it was difficult to state what the nature of the colouring matter was. Solutions used in the method should be freshly prepared. The method was not very sensitive.

Determination of Calomel in Pills

By G. J. W. Ferrey

[Abstract]

A method was required for the determination of calomel in three pills of the British Pharmaceutical Codex, namely calomel, colocynth and hyoscyamus pills, calomel and colocynth pills, and compound podophyllin pills. It is probable that the method evolved may be of use in the determination of mercury in other compounds admixed with large proportions of vegetable matter. By the method described, calomel may be determined in presence of a large proportion of vegetable matter by first oxidising to a mercuric salt with bromine in acetic acid solution, reducing to metal by boiling with zinc filings, dissolving the metal in nitric acid, and titrating with standard ammonium thiocyanate solution. (From the analytical laboratory of James Woolley, Sons & Co., Ltd.)

scussion

Before throwing the meeting open for scussion THE CHAIRMAN said the paper ccessfully solved an analytical problem.

MR. R. W. GILLHAM, Leeds, reported his perience that calomel takes time to disingrate and dissolve. He asked if the ethod had been applied on solutions of ercuric salts in the presence of organic atter.

MR. POWELL, Nottingham, congratulated e author and said he preferred the thor's method to the official.

THE AUTHOR, replying, said he had und the fineness of calomel samples to ry considerably. Crystalline samples ere very inactive.

The following three papers, all conerned with various aspects of vitamin B, ere read at the opening of Wednesday's orning session.

luorimetric Assay of Aneurine

y HAZEL WILLIAMS AND FRANK WOKES

[ABSTRACT]

HE U.S.P., XIII, method for the fluoriletric assay of aneurine in pharmaceutical roducts is compared with British methods. he adsorption technique in the U.S.P., III, method is found to be more efficient han the British technique of washing the nal aqueous extract with isobutyl alcohol remove interfering substances from malt nd yeast preparations on which ordinary uorimetric assays give unsatisfactory esults. The use of potassium chloride in he U.S.P. eluant does not affect calibraion curves. The standard quinine solution f U.S.P., XIII, is less suitable than that f B.P., 1932, for assays using fluorimeters vith optically balanced photocells. When xidising aneurine to thiochrome, adherence o uniform conditions is made easier by use f a pre-mixed oxidising agent, as in J.S.P., XIII, and by the use of methyl lcohol to slow down the rate of reaction. Results are affected by the temperature luring oxidation. A simplified method for he fluorimetric assay of aneurine in malt xtract is described, based on the findings. t includes adsorption on activated zeolite s in U.S.P., XIII, but omits the digestion vith acid and incubation with enzymes. A recovery experiment is added. The simplified method has given the same results as more lengthy adsorption methods on a eries of seven pharmaceutical malted preparations, including malt extract. (From the Ovaltine Research Laboratories.)

Adsorption of Aneurine from Solutions of the Pure Substance

BY C. DAGLISH

[ABSTRACT]

THE conditions under which aneurine can be quantitatively adsorbed on to, and eluted from, columns of zeolite appear to have wide limits. The zeolite for use must be activated by boiling with hot acetic acid and potassium chloride solutions. Higher recoveries are obtained if activated zeolite columns are pretreated *in situ* with 5 mils of 3 per cent. acetic acid immediately prior to the adsorption of the aneurine solution. The apparent increase may be due to:—(*a*) the conversion of K- or Na-zeolite to the hydrogen form, the hydrogen of the latter being more readily replaced by aneurine; or (*b*) by lowering the *p*H of the column and thus preventing the destruction of aneurine, since some activated zeolites have been found to have *p*H values of the order of 7.3 to 9.2.

Activated zeolites can be stored dry or under water without loss of efficiency. Dry zeolite has been shown to be fully active after six months' storage. The column dimensions and rates of flow of adsorbing and eluting solutions appear to have little effect upon the recovery of aneurine. The substance was adsorbed equally well from solutions of concentrations ranging from 0.5 to 10.0 μgm./mil. Lower concentrations than 0.5 μgm./mil tend to give lower recoveries and the same may be true when the total amount of aneurine available falls below a certain limit. The results so far obtained suggest that there is a minimum ratio of aneurine/zeolite below which recoveries fall below 100 per cent. (From the Ovaltine Research Laboratories.)

Analytical Control of Preparations Containing Vitamins B_1 and B_2

BY W. F. ELVIDGE

[ABSTRACT]

THE introduction of the Labelling of Food Order (1944), under which vitamin-containing preparations are required to contain therapeutic doses if claims for their vitamin content are made, has imposed upon the manufacturer the necessity of assaying and guaranteeing their potency. The author investigated various non-biological methods for their suitability for routine control of a few typical pharmaceutical preparations for vitamins B_1 and B_2. For the assay of aneurine tablets, B.P., Melnick and Field's

colorimetric method gives slightly lower results than fluorimetric assays, and relaxation of their specifications is undesirable. The difficulties met with in the various stages of the fluorimetric assay of aneurine are discussed, and in particular it is shown that adsorption on to a synthetic zeolite column considerably improves the assay. Recovery experiments, particularly with aneurine, give erratic results, requiring considerable further investigation. Indication has been given as to where various methods for determining riboflavine are suitable. Fluorimetry, either direct or after adsorption, can give reasonably reliable results. (From the analytical laboratory of Boots Pure Drug Co., Ltd.)

Discussion

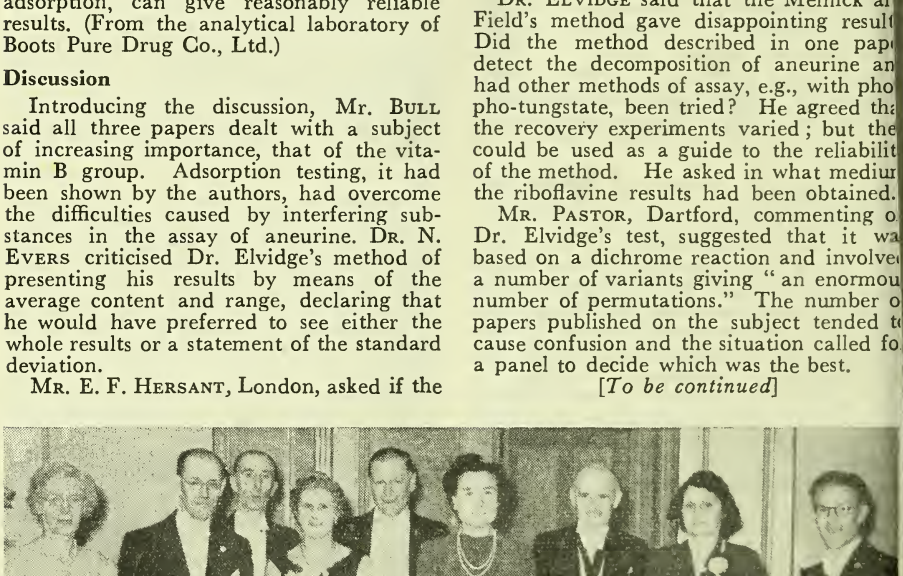
Introducing the discussion, Mr. Bull said all three papers dealt with a subject of increasing importance, that of the vitamin B group. Adsorption testing, it had been shown by the authors, had overcome the difficulties caused by interfering substances in the assay of aneurine. Dr. N. Evers criticised Dr. Elvidge's method of presenting his results by means of the average content and range, declaring that he would have preferred to see either the whole results or a statement of the standard deviation.

Mr. E. F. Hersant, London, asked if the results had been obtained from tests routine works solutions. Mr. D. C. Adamson confirmed the advantage using Decalso, but criticised Dr. Elvidg method of presenting his results. He advis the use of a cone fluorimeter and observi the deflection reading given by a galvan meter. He asked Mr. Daglish wheth there was any difference in action betwe sodium and potassium chloride when us in the method he had described, ar whether the methyl alcohol slowed dow the oxidation process or had a bufferir action.

Dr. Elvidge said that the Melnick ar Field's method gave disappointing resul Did the method described in one pap detect the decomposition of aneurine an had other methods of assay, e.g., with pho pho-tungstate, been tried? He agreed th the recovery experiments varied; but the could be used as a guide to the reliabilit of the method. He asked in what mediu the riboflavine results had been obtained.

Mr. Pastor, Dartford, commenting o Dr. Elvidge's test, suggested that it wa based on a dichrome reaction and involve a number of variants giving "an enormou number of permutations." The number o papers published on the subject tended t cause confusion and the situation called fo a panel to decide which was the best.

[*To be continued*]



AT THE CIVIC RECEPTION: Seated, The Mayor of Torquay (Alderman A. J. Allams, J.P.), the president of the Pharmaceutical Society (Mrs. Jean K. Irvine, M.B.E.); the chairman of the Conference (Mr. B. A. Bull); the mayoress (Mrs. Allam). Standing: Mrs. E. J. Bowerman, Mr. E. J. Bowerman (vice-chairman, Conference local committee); Mr. J. R. Sharpe; Mrs. H. Holmes; Mr. H. Holmes (chairman, Conference local committee); the deputy mayoress (Mrs. T. J. Reeves Taylor); deputy mayor (Councillor T. J. Reeves Taylor); Mrs. T. D. Evans; and Mr. T. D. Evans (secretary, Conference local committee).

CORRESPONDENCE

orrespondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor.

Necessitous Cases ?

Sir, — From Parliamentary replies and formation supplied by wholesale houses, seems that vacuum flasks can only be tained by "permit," and I, as a retail emist, have been unable to meet doctors' rtificates requesting flasks for necessitous ses. Yesterday I had to apologise to two fferent customers, who, incidentally, were nply desiring them for picnics. Both turned later to say that they had bought asks without any trouble at a shop uckster type) less than a hundred yards ong the street. Can anyone explain this?

Yours faithfully,

St. Andrews. A. W. Keith.

Knowledge of Pharmaceutical Council Activities

Sir, — It is becoming manifest as time oes on that more and more members of e Society are less and less well informed garding the activities and decisions of the ociety's Council, particularly those taken the early part of this year. It is, of ourse, the excuse of the Council and its ecretary that there are two reasons for is: First, that members do not read either e "Pharmaceutical Journal" or The hemist and Druggist; and secondly, e shortage of paper which is so unfortuately imposed upon us. Both of these asons are undoubtedly true, the first athetically so! The fact remains that me important decisions of the Council, nd a number of its activities, remain secret nd unpublished, even to the most diligent eader of your journal. Mr. Arthur Mortimer, at the Branch Representatives' neeting at Torquay, on September 17, gave oice to an idea that has been in my mind or some time. This is that it would be ery helpful and instructive if the Society vere to send out each month to Branch ecretaries a confidential circular informing nembers of the monthly business and proress of the Council in the form of a full ncensored report, with no omissions. I uggest that such a letter would be welomed by a large majority of members and ould be sent to each member individually vho ordered it, by post, at the charge of, ay, sixpence per month, i.e., 6s. annually.

Yours faithfully,

Stockport. S. D. Andrew.

An Important War Damage Decision

Sir,—It has been announced that the War Damage Commission does not intend to carry to the House of Lords the case of Brigadier D. A. S. Brown v. War Damage Commission (see *C. & D.*, July 26, p. 119). The decision of the Court of Appeal, dismissing the War Damage Commission's appeal, therefore now stands. This means, in general terms, that in a War Damage Cost of Works case owners can claim 100 per cent. of the cost of replacement even if the property was in a bad state prior to the war damage. The effects of the decision are far reaching. Millions of pounds may have turned on the result. With regard to War Damage value payments for houses (usually houses totally destroyed) under Part I of the War Damage Act, the Government has now fixed November 10, 1947, as the starting date for payment. It appears that, so far, in cases where there are two or more proprietary interests, agreement as to the division has only been reached in 20 per cent. of the cases. Freeholders and leaseholders should make an effort now to reach agreement if they want to receive prompt payment. Some of the claims awaiting payment are already six years old.

Yours faithfully,

Hove, 3. Robert W. Lindsey.

FIFTY YEARS AGO

An Apotheker's Holiday

(*From the C. & D., September* 25, 1897)

The apotheker of St. Avold, in Alsace, left with his family for Düsseldorf the other day on a holiday, leaving in charge, as sole occupant of his premises, a qualified manager whom he had engaged the week before. No sooner was the manager alone than he got violently drunk, made hay of the shop and dwelling-house, and generally created a racket that caused his neighbours to run for the mayor of the town. His worship donned his chain of office, placed himself at the head of the local police, stormed the pharmacy, ejected the drunken manager, and officially closed the shop by proclamation, pending the return of the proprietor, who was telegraphically informed of the state of things.

TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary as to brand or grade.

28 Essex Street, W.C.2, Sept. 24

THERE has been no major change in the prices of PHARMACEUTICAL and FINE CHEMICALS during the past week, with quotations fully maintained at former rates; the market is, however, showing an increasingly firm undertone. Supplies of BENZOIC ACID continue to improve, but spot supplies of SODIUM BENZOATE are very low; the latter product has attracted a good export inquiry. It is understood that output of GUAIACOLS is growing and deliveries will be recommencing in the course of the next few weeks. A small increase has been made in the prices of LACTIC ACID but LACTATES are unchanged. A brisk demand is reported for SALICYLIC ACID, while SULPHANILAMIDE, in fair supply, is moving steadily in export markets.

Crude Drugs

The past week has been a period of doubt and uncertainty in the markets for CRUDE DRUGS with speculations rife regarding possible changes which may be made in the list of the commodities at present brought into the country under open general licence, while quotas of several items, such as Brazilian MENTHOL have already been curtailed. On the recommendation of the Directorate of Medical Supplies, restrictions have been made on the importation of GRINDELIA and HYDRASTIS and no import licences are being granted for material for the home trade; re-export business is not affected. The Botanical Drug Import Merchants' Section of the London Chamber of Commerce is to meet on Thursday to consider the position.

Licences have now been issued for the importation of a considerable quantity of AGAR from Hongkong, mainly of Korean origin although some is Japanese. The quality of samples shows that there is little to choose between the two varieties, although the Korean is darker in colour. The price should be in the region of 17s. to 17s. 6d. per lb., duty paid. Cape ALOES continues in short supply on the spot and some holders are asking higher prices; the forward position is, however, tending easier. Further parcels of BELLADONNA root are now being tested. CASCARA SAGRADA is fully maintained at previously quoted levels. A good business has been done in Portuguese DIGITALIS and spot supplies have been cleared. Holders of IPECACUANHA are in no hurry to sell and the market is firm. Samples of RHUBARB now offering in China are of better quality. SENEGA continues firm with a lack of offers on the other side. SHELLAC is a steady market. BEESWAX continues in short supply on the spot, and shipment offers have been few.

Essential Oils

A very good demand has been seen for ANISEED and spot supplies have been firmly held; oil afloat, due late in October, is quoted at 4s. 6d. to 4s. 9d., landed. Issues of licences for further importations of this oil have been suspended. More interest has been taken in CITRONELLA. LEMONGRASS, for shipment, is tending firmer. A good inquiry from home and foreign buyers is reported for SYNTHETICS and ISOLATES and the supply position generally continues to improve.

U.S. Drug and Chemical Report

New York, September 19

THE upward trend in chemical prices was demonstrated last week by further advances in several basic chemicals including SODIUM SULPHIDE and CARBON DISULPHIDE. Higher prices are also being asked for CHROMIC ACID, the technical grade of HEXAMINE and CHLORINATED SOLVENTS. Among coal tar products, CRESOLS, CRESYLIC ACID and NAPHTHALENE are still in tight supply, but BENZOL, TOLUOL and XYLOL are now more freely available. BENZENE HEXACHLORIDE has moved into a more competitive position with some producers offering material at reduced prices for prompt shipment. The only signs of an increase in trading in FINE CHEMICALS and DRUGS are among those materials which are in greater demand during the winter months. Trade in MENTHOL, however, is inactive, material being available on spot at $8 to $8.25 per lb. Chinese menthol is understood to be available at $7.40, excluding duty, but it is pointed out that this produce would not arrive before November. Recent declines in New York in the price of MERCURY are attributed to the lower levels now being quoted in other world markets and to the unusually low level of domestic demand. Statistics issued by the U.S. Department of Commerce show that imports of BOTANICAL DRUGS used medicinally and in industry declined in the first five months of 1947, compared with the corresponding period of 1946—with the exception of "aromatic gums." The overall total declined from 53,622,053 lb. to 45,659,389 lb. Demand is now improving slightly and with new-season domestic collections falling behind earlier estimates in many instances, higher prices are forecast for the winter months. A good inquiry is reported for flavouring materials. Slight declines in the quotations for COPAIBA and TOLU BALSAMS are not expected to be maintained in view of higher prices in the primary markets. Both are currently 5 cents per lb. lower. Copaiba is at 70 cents per lb. and Tolu at $3.75 per

. Fair quantities of Indian PSYLLIUM ED are continuing to arrive from India; 012,646 lb., with a value of $625,433, ving been imported during the first five nths of this year.

Slightly more interest in ESSENTIAL ILS and other aromatics was reported om the medicinal, food and cosmetic in- stries during the past week. Many items ntinued to decline, however.

Pharmaceutical Chemicals

BROMINE COMPOUNDS.—Current prices r lb. are as follows: BROMOFORM, B.P.C., s. 9d.; CADMIUM, crystals, 13s.; CALCIUM, . 10d.; ETHYL, 9s. 6d.; LITHIUM, 11s. 9d.; YDROBROMIC ACID, B.P.C., 6 Winchester arts, 2s. 3d., and smaller quantities, . 1d.; DILUTE ACID, B.P., 3 Winchester arts, 1s. 4d.; CONCENTRATED 40 per cent. Winchester quarts, 2s. 5½d., and smalls, . 3½d.; CONCENTRATED, 50 per cent., 6 inchester quarts, 3s. 1½d., smalls, 3s. 11½d.

BUTYL CHLORAL HYDRATE.—Current prices e from 17s. 6d. per lb. upwards.

CARBROMAL.—Importers' quotations are 45s. per lb. In short supply.

CHLORAL HYDRATE.—Current rates are as llows: 28 lb., 4s. 8d. per lb.; 14 lb., 5s.; lb., 5s. 3d.; less than 7 lb., 5s. 9d. per lb.

EPHEDRINE.—Quotations for the ALKA- ID are at from 12s. 6d. to 13s. per oz., as quantity. HYDROCHLORIDE is quoted at om 8s. 6d. to 9s. per oz. Supplies limited.

METHYL SALICYLATE.—Current rates are follows: Winchester quarts, 2s. 2½d. per ; 56 lb., in demijohns, 2s. 1d.; 1 cwt., in mijohns or carboys, 2s. 0½d.; 5 cwt., 2s. l prices are net.

METOL.—Current prices (net) per lb. are s. 6d. for 28-lb. lots and 16s. 6d. for 1-cwt. s; other quantities in proportion. Pack- es free. Contracts: Minimum 5 cwt. er twelve months.

PEPSIN.—B.P. is quoted at 33s. 6d. per .

SODIUM ALGINATE.—Makers' quotations e from 5s. to 6s. per lb., according to antity.

SODIUM TAUROGLYCOCHOLATE. — Makers' ice has been increased to 45s. per lb.

STILBŒSTROL.—Quotations are at from . 3d. to 2s. 6d. per gm. STILBŒSTROL PROPRIONATE is available at the same ices.

SULPHANILAMIDE.—Supplies are fair on ot with quotations from 4s. 9d. to 6s. 6d. r lb., according to quantity and pack.

TANNIC ACID.—In very short supply. B.P. vis, ex ether, from 10s. 6d. per lb., accord- g to quantity.

TEREBENE.—Rates per lb. are as follows: arboys, 3s. 9d.; 24 Winchester quarts, . 10½d.; 12, 4s. 1½d.; 6, 4s. 5d.

TERPINEOL.—B.P. quality as quoted at . per lb. for small lots.

Crude Drugs

ALOES.—Spot supplies of *Cape* are low and quotations range from 175s. to 185s. per cwt.; for shipment, 145s., c.i.f. Curaçao, in boxes, is quoted at 235s. to 245s., spot; forward, 215s. to 220s., c.i.f. Socotrine is quoted at 156s. to 190s. per cwt., according to quality.

ANISE (STAR).—Quotations for spot are at 130s. per cwt.; for shipment, 110s., c.i.f.

BALSAMS.—*Canada*, in short supply, is quoted at 16s. 6d. per lb., spot. Pará *Copaiba*, spot, is quoted at 8s. per lb., for soluble, and 7s. 3d. per lb. for insoluble. *Peru*, San Salvador, is quoted at 7s. per lb., duty paid. *Tolu*, on the spot, 18s. per lb.

BELLADONNA.—Several parcels of Jugo-Slav root have been received and are now being tested. On a basis of a 0.5 per cent. alkaloid content, 5s. 6d. to 6s. per lb. is asked. English herb is quoted from 4s. 6d. to 6s. per lb., according to holder.

BUCHU.—Short rounds are quoted at 4s. 3d. to 4s. 4½d. per lb., spot; shipment, 4s., c.i.f.

CAMPHOR. — Chinese tablets (¼-oz.). quoted at 11s. 3d. to 11s. 6d. per lb., spot; refined powder (B.P.), 10s. 3d. to 10s. 6d.; Formosa (B.B.), 9s. 6d. to 10s.; 2½-lb. slabs, afloat, quoted at 10s. 6d. per lb., landed, duty paid. Chinese crude, 93-95 per cent., 7s. per lb.

CANTHARIDES.—Spot, Chinese is quoted at 15s. to 16s. per lb., duty paid, according to quantity; for shipment, 7s. 9d., c.i.f.

CAPSICUMS.—East African, spot, steady at 120s. to 140s. per cwt., according to quality.

CARDAMOMS.—Mangalore: Half-bleached, A's, are quoted at 8s. 3d. per lb.; B's, 7s. 9d. per lb.; seeds, 7s. (nominal), spot. Aleppy seeds, No. 1, offered at 7s. 9d. per lb.; Aleppy greens, 6s. 9d. per lb., spot.

CASCARA SAGRADA.—Firm. Spot quotations for 1946 peel are at 260s. per cwt., duty paid. 255s., duty paid, is quoted for American new-crop.

GUM ACACIA.—Kordofan cleaned sorts quoted at 72s. 6d. per cwt., ex store; shipment, 68s. 6d., c.i.f. Bleached No. 1 is quoted at 145s., ex store. Talha is at 43s. per cwt., spot; forward, 39s. 6d., c.i.f.

HENBANE.—Quotations are at 4s. 6d. per lb., spot. Egyptian (*H. muticus*) is offered at 105s., spot; forward, 115s. per cwt., c.i.f.

HYDRASTIS.—Firm. Quotations are at 60s. per lb., spot.

IPECACUANHA.—Continues firm. Nicaraguan root on the spot is quoted at 28s. to 28s. 6d. per lb.; shipment, September-October, 26s. 6d., c.i.f. Colombian, scarce on the spot, is quoted at 27s. 6d.; shipment, 24s. 6d., c.i.f.

LAVENDER FLOWERS.—Spot quotations are from 2s. 3d. to 4s. 6d. per lb., according to quality.

LIQUORICE ROOT.—Anatolian whole root is quoted at 52s. 6d. per cwt., spot. Turkish juice (block) to come forward is quoted at 250s. per cwt., duty paid; shipment, 225s., c.i.f.; Turkish stick (2-oz.) is offered at £455 10s. per ton, spot. Italian stick (1-oz. and 2-oz.) is available on the spot at prices from £420 to £485 per ton, according to quality.

MACE.—West Indian blade, on the spot, is quoted at 7s. per lb.

MALE FERN.—Jugo-Slav is quoted from £82 10s. to £85 per ton, spot.

MENTHOL.—Brazil is firmly held at 48s. to 50s. per lb., duty paid; forward offers, 43s., c.i.f., buyers' licence. Chinese, in original cases, is quoted at 52s. 6d. per lb., duty paid; forward quotations are around 60s. per lb., c.i.f.

MERCURY.—Spot quotation is £16 per flask, ex warehouse; for shipment, £15 8s., c.i.f. U.K.

MYRRH.—Spot. Aden sorts is quoted at £14 to £15 10s. per cwt., according to quality; siftings, £8 to £10 per cwt.

NUTMEGS.—West Indian 80's are steady on the spot at 2s. 9d. per lb.; sound unassorted, 2s. 3d.; wormy and broken, 1s. 9d.

NUX VOMICA.—Madras is steady at 40s. to 42s. 6d. per cwt. Mangalore, 40s.; Cochin, scarce, 42s. 6d. to 45s., spot, as to seller.

OLIBANUM.—Fair to good drop is quoted from 200s. to 240s. per cwt.; pea size, 220s.; good garblings, 180s.; seeds, 175s.; siftings, 110s.

ORANGE PEEL. — Spot quotations for Spanish quarters are at 1s. 6d. per lb.; sweet ribbon is quoted at 1s. 9d. per lb. Bitter ribbon, 1s. 3d. per lb., spot Liverpool.

ORRIS.—Florentine, on the spot, is quoted at prices from 150s. to 200s. per cwt., according to holder; Veronese, 135s. per cwt.

PAPAIN.—East African on the spot is quoted at 31s. to 33s. per lb. Prices have fallen sharply at origin.

PIMENTO.—Spot quotations are at 1s. 2½d. per lb.; to arrive, 119s. per cwt., c.i.f.

PSYLLIUM SEED.—Black, on the spot, is quoted at prices from 2s. 3d. to 2s. 6d. per lb.; pink seed (Isphaghula) is scarce at 1s. 5d.

QUASSIA.—Chips, shipment, quoted at 34s. per cwt., c.i.f.; September-October is quoted at 32s., c.i.f.; spot, 40s., value.

QUILLAIA.—Natural bark is quoted at prices from 105s. to 115s. per cwt., spot; cut, for future delivery, 135s. per cwt.

QUINCE SEEDS.—Cape, on the spot, is quoted at 6s. per lb.

RHATANY. — Spot quotations are unchanged at 11d. per lb.

RHUBARB.—Chinese rough round, much of which is wormy, is offered at prices from 4s. 3d. to 6s. 6d. per lb., spot, according to quality; parcels afloat, of good fracture a sound on shipment, quoted 5s. 6d., du paid. French rhapontica, 2s. per lb., sp

SEEDS.—The latest cable reports fr India confirm that all Indian seeds a dearer for shipment. ANISE — Cypr quoted at 2s. 2½d. per lb. and Turki 2s. 1d. per lb., duty paid, spot London Liverpool. CARAWAY.—Dutch offered 11½d. to 1s. per lb., duty paid, ex wha London; new-crop for October delivery h been cleared at 1s. to 1s. 0½d. per lb., lande duty paid. CELERY.—Indian, 1s. 4d. p lb., spot Liverpool. CORIANDER.—Sp Morocco offered at 42s. 6d. per cwt., du paid in London; Argentine quoted at 4 per cwt., duty paid in London or Liverpoo Indian, 40s. per cwt., ex store Liverpo DILL.—Indian quoted 40s. per cwt., in Lo don and 37s. 6d. ex store Liverpool; f shipment, 40s. per cwt., c.i.f., now quote FENNEL.—Indian, 87s. 6d. to 90s. per cw spot London and 85s. per cwt., spot Live pool. FENUGREEK.—Indian, 45s. per cw spot London and 42s. 6d. per cwt., ex sto Liverpool; for shipment, 41s. per cwt., c.i. now being quoted.

SENEGA.—Spot quotations for old-cr material are from 12s. 6d. to 13s. 6d. p lb.; new-crop, 12s. 3d., c.i.f., with few offer

SHELLAC.—F.O.T.N., pure, quoted 282s 6d. per cwt., spot.

SQUILL.—Spot quotations are at 65s. p cwt.

STRAMONIUM.—Indian leaf is steady 75s. per cwt., on the spot; Hungarian lea 115s., spot.

STROPHANTHUS.—Only small supplies o the spot. Kombé, 100 per cent., quoted 9s. 6d. per lb.

STYRAX.—Spot quotations are from 5s. t 5s. 3d. per lb., duty paid.

TAMARINDS.—Barbadoes is steady at 50 per cwt., in bond.

TURMERIC.—Madras finger is quoted 105s. per cwt., spot Liverpool or Londo

VALERIAN.—Belgian root is at 190s. t 220s. per cwt., according to holder.

WAXES.—Spot supplies of BEES' con tinue rather low. Offers of Dar-es-Salaam October-November shipment, are at 370 per cwt., c.i.f. There is no Lindi bein offered. Yenan is quoted at 370s. per cwt. duty paid; Benguela, 380s., spot; for ship ment, 300s., c.i.f., buyers' licence, and 315s. c.i.f., sellers' licence. CANDELILLA.—Sp quotations are at 420s. per cwt.; shipment 385s., c.i.f. CARNAUBA.—Fatty grey quote 610s. per cwt., spot; afloat, 550s., c.i.f. October-November shipment, 510s., c.i.f. buyers' licence. Prime yellow, spot, 800s quoted; shipment, 730s., c.i.f., buyers licence. MONTAN.—Reibeck is quoted a 390s. per cwt., spot; Czechoslovak crude 335s. per cwt., spot. OURICURI.—Spot, per cent., 365s., shipment, 5 per cent., 320s. c.i.f.; 2 per cent., 350s., c.i.f.; 1 per cent. 360s., buyers' licence.

Essential and Expressed Oils

ANISEED.—Continues scarce on the spot ith quotations from 7s. 6d. to 9s. per lb., ccording to quantity and seller; material float, due to arrive towards the end of ctober, is quoted at 4s. 6d. for drums and s. 9d. for tins, landed terms.

BAY.—West Indian is quoted at 7s. 6d. 9s. per lb., spot.

CADE.—Spot quotations are at from 4s. 5s. 6d. per lb., according to quantity; rices are lower for oil to come forward.

CANANGA.—Java oil is quoted at from 5s. to 40s. per lb., spot.

CASSIA. — Spot quotations are from s. 9d. to 17s. per lb., as to quantity.

CASTOR. — Controlled prices are unhanged: Firsts, £180 per ton; seconds, 176, naked ex works.

CINNAMON.—Imported oil (factitious) mplying with B.P. requirements is quoted t 80s. to 90s. per lb., spot. English-dislled oil from Ceylon bark is available at 4s. per oz. Leaf oil, spot, quoted at 11s. 13s. per lb.

CITRONELLA.—Ceylon, spot, is quoted om 5s. to 8s. per lb, according to quanty; Java, forward, quoted at about 7s. 6d., i.f.

LAVANDIN.—Spot quotations are from 4s. 6d. to 13s. 6d. per lb.

LAVENDER.—French (38 to 40 per cent. ters) is quoted from 35s. to 40s. per lb. panish (spike), 10s. 6d. to 11s. 6d. per ., spot.

LEMONGRASS.—Quotations for spot supies are from 7s. to 9s. per lb., according quantity.

NUTMEG. — Quotations for English-dislled oil are from 42s. to 47s. 6d. per lb., ot; West-Indian distilled, to come forard, 42s. 6d. to 45s. per lb., landed.

OLIVE.—The price of edible, 1 per cent., wholesalers is 51s. per gall. of 9 lb., in ums, ex store. Wholesalers' prices to reilers are as follows: In gall. loan cans, 8s. 9d. per gall.; in ½ gall., 59s. 6d.; in nart loan containers, 60s. 4d. and in pint ntainers, 61s. 4d. per gall., all delivered.

PALMAROSA.—Spot quotations are at om 32s. 6d. to 37s. 6d. per lb., according seller and quantity.

PATCHOULI.—Seychelles is quoted at 70s. 80s. per lb., spot; to come forward, 60s. r lb.; Singapore is quoted 100s. to 130s. r lb., according to quantity and seller.

PIMENTO BERRY.—English-distilled oil is noted at 47s. 6d. to 57s. 6d. per lb. and wards, according to quantity and seller.

ROSEMARY.—Spanish is quoted at 7s. 6d. 10s. 6d. per lb., according to seller and nantity.

SANDALWOOD.—English-distilled is quoted 85s. to 90s. per lb., according to quantity.

SASSAFRAS.—Brazil, on the spot, is at s. 9d. to 7s. per lb., according to quantity.

THYME. — Red oil (40-42 per cent. phenols) is at 13s. 6d. to 16s. per lb.; white oil is quoted at 17s. to 18s. 6d. per lb., spot.

YLANG YLANG.—Bourbon No. 1 is quoted at 90s. to 100s. per lb.; No. 2, 50s.; No. 3, 35s.

Synthetics and Isolates

A GOOD inquiry is being received for these products, and supplies are on the whole adequate. Quotations are per lb. and vary according to quantity, grade and seller.

ACETOPHENONE.—10s. 6d. AMYL ACETATE. —2s. 9d. AMYL BENZOATE.—5s. 6d. to 6s. 6d. AMYL BUTYRATE.—8s., nominal. AMYL SALICYLATE.—3s. 6d. to 4s. 6d. In good supply. AMYL CINNAMIC ALDEHYDE.—25s. ANISIC ALDEHYDE (AUBEPINE).—Ex anethole, 32s. 6d.; ex paracresol, 25s.; perfumers', 30s. to 32s.

BENZYL ACETATE.—3s. 6d. to 5s. In good supply. BENZYL ALCOHOL.—3s. 6d. to 5s. In good supply. BENZYL ISOEUGENOL.—35s. BENZYL PROPRIONATE.—None available. BENZYL SALICYLATE.—7s. 6d. to 10s. BENZYL SUCCINATE.—20s. to 22s. 6d. BORNYL ACETATE.—12s. 6d. to 15s. BUTYRIC ACID.—8s. Very short. CINNAMIC ALDEHYDE.—8s. to 9s. Readily available. CINNAMIC ALCOHOL.—17s. 6d. to 18s. 6d. CITRAL.—15s. to 37s. 6d., according to grade. Freely available. CITRONELLOL. — Ex Ceylon, 30s.; ex Java, 50s. COUMARIN.—19s. to 20s.

DIPHENYL METHANE.—6s. 6d. to 7s.

ETHYL BENZOATE.—5s. 6d. to 6s. 6d. ETHYL PHTHALATE.—2s. to 2s. 6d. EUGENOL. —13s. 6d. to 17s.

GERANIOL.—Ex Ceylon oil, 27s. 6d. to 30s., freely available; ex Java, 45s. to 60s.

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NEROLIN BROMELIA.—17s. 6d. NEROLIN YARA YARA.—9s. 6d. to 10s. 6d.

PHENYLACETALDEHYDE.—60s. PHENYL ACETIC ACID.—7s. 6d. to 8s. 6d. PHENYL ETHYL ALCOHOL.—15s. to 16s.

RHODINOL.—170s. to 185s.

STYROLENE ACETATE.—10s. 6d. to 11s. 6d.

TERPINEOL (perfumers').—5s. 3d. to 5s. 9d. TERPINYL ACETATE.—12s. 6d. to 13s. 6d.

TRADE MARKS

(*From "The Trade Marks Journal," September* 3)

"SUKRETTEN"; for sweetening substances (artificial) (1). By Chefaro Chemische Fabriek "Rotterdam," 8 Keileweg, Rotterdam, Holland. 647,727.

"ELARGOL"; for chemical substances used in industry (1). By Ward, Blenkinsop & Co., Ltd., Brooklands, Wood Road, Halewood, Liverpool. 649,443.

"MYNOZ"; for chemical products used in industry, and fire extinguishing compositions (1). By Nu-swift, Ltd., Protector Works, Wistons Lane, Elland, Yorks. 649,583 (Associated).

"MYRAD"; for chemical products used in industry (1). By Nu-swift, Ltd., Protector Works, Wistons Lane, Elland, Yorks. 649,585.

"ACINYL"; for dyes and dyestuffs (none being for toilet purposes) and colouring matters (not for laundry or toilet purposes) (2). By Ciba, Ltd., 141-227 Klybeckstrasse, Basle, Switzerland. 648,816 and 647,145.

Device of a woman sitting in oriental manner; for perfumes, toilet preparations (not medicated), toilet articles included in this class, cosmetic preparations, preparations for the hair, dentifrices, soap; discs and pads made of woollen felt or of rubber for hair waving, and paper sachets for hair waving (3); for hair-waving machines, and parts thereof not included in other classes (7); and for hair-waving appliances, being hand implements (8); hair-drying machines not included in other classes (11); and hair clips and hair curlers, all for attachment to the hair (26). By Eugene, Ltd., Edgware Road, Hendon, London, N.W.9. 639,565-70 (Associated).

"ANTICALX"; for detergents for sale in East, Mid and West Lothian, Fifeshire, and Stirlingshire (3). By the Dunedin Chemical Co., Ltd., 4 Albyn Place, Edinburgh, 2, Scotland. B642,399.

"MEDRICOL"; for all goods in class 3 except essential oils (3); and for all goods in class 5 (5). By Metropolitan Drug Co., Ltd., Desborough Street, Cirencester Street, London, W.2. 647,144 (Associated).

"BIRKERTEX"; for toilet articles included in this class, toilet preparations (not medicated), cosmetic preparations, soaps and perfumes (3). By Berker Sportcraft, Ltd., Blenstock House, Blenheim Street, New Bond Street, London, W.1. 648,768.

Device of lock of hair; for preparations for the hair (3). By Ashe Laboratories, Ltd., 120-22 Victoria Street, Westminster, London, S.W.1. B648,867 (Associated).

"ATOMITE"; for insecticides and insect-repelling preparations and substances (other than for personal use), and materials in the form of tubes impregnated with insect-destroying and insect-repelling preparations (5). By Ashton Products, Ltd., 143-67 Brookhill Road, Bootle, Liverpool. 647,607.

"KEMO"; for pills and tablets, all being medicated (5). By Wands, Ltd., Wandol House, 21 Wellington Street, Leicester. 648,137 (Associated).

"AJAX"; for scouring powder (3). By Colg Palmolive-Peet, Ltd., Terminal House, 52 G venor Gardens, London, S.W.1. 649,845.

"STRYKOL"; for veterinary preparations (5). Boots Pure Drug Co., Ltd., Station Str Nottingham. 645,880.

"OPTULLE"; for medicated paraffin tulle export (5). By Perivale Laboratories, Ltd., King William Street, London, E.C.4. B648, (Associated).

"Ashton & Parsons Matricaria Infants' Powder on label device; for medicinal preparations fr matricaria herbs for human use (5). By Ph ferine (Ashton & Parsons), Ltd., 68 Pall M London, S.W.1. B649,109 (Associated).

"SANFIT"; for sanitary towels, sanitary tamp and sanitary belts (5). By Walter Sykes, 4 S ford Street, Oldham, Lancashire. 649,091.

"STANVOX"; for all goods included in this c (5). By Stanese, Ltd., Duke Street Hou Oxford Street, London, W.1. 649,115.

"JACOL"; for sanitary towels (5). By Jan Engineering Co. (Oldham), Ltd., 4 Hardcas Street, Oldham, Lancashire. 649,162.

"DAISY"; for hair clippers (non-electric) (8). Brown's Clipper Co., Ltd., Wolseley Wor Electric Avenue, Witton, Birmingham. 648,5

"WET BOB"; for shaving instruments (8). George Stephen Kammer, 48 Albemarle Stre Piccadilly, London, W.1. 648,747.

"ROYTAL"; for lenses (9). By Taylor, Taylor Hobson, Ltd., 104 Stoughton Street, Leicest 649,772.

"PROTESPEC"; for sun glasses and goggles (9). Samuel Gorb & Co., 222 Shaftesbury Avenu London, W.C.2. 649,808.

"MEDALLION"; for toilet paper (not medicate and paper articles included in this class (1 By British Crepe-makers & Paper Products, Lt Harlequin Avenue, Great West Road, Brentfor Middlesex. 648,703 (Associated).

"TUBE-O-DENTS"; for tooth sticks (not of precio metal or coated therewith) (21). By Briti Dental Sticks, Ltd., 46 Elswick Road, Ne castle-on-Tyne. 649,918.

(*From "The Trade Marks Journal," September* 10)

"MICHROM"; for biological stains and reagent all being chemical products for use science (1). By Edward Gurr, 13 Napi Avenue, London, S.W.6. B646,929.

"GALBE"; for toilet preparations (not medicated perfumes and perfumed soap (3). By S. A. R. Dite Les "Laboratoires de la Jeunesse," 8 r de Berri, Paris (8), France. B644,566.

"COFALGIN"; for pharmaceutical preparations an substances (5). By Bayer Products, Ltd., Afric House, Kingsway, London, W.C.2. 649,888.

"PROTEX"; for toilet soap (3). By Colgat Palmolive-Peet, Ltd., Terminal House, 5 Grosvenor Gardens, London, S.W.1. 641,044.

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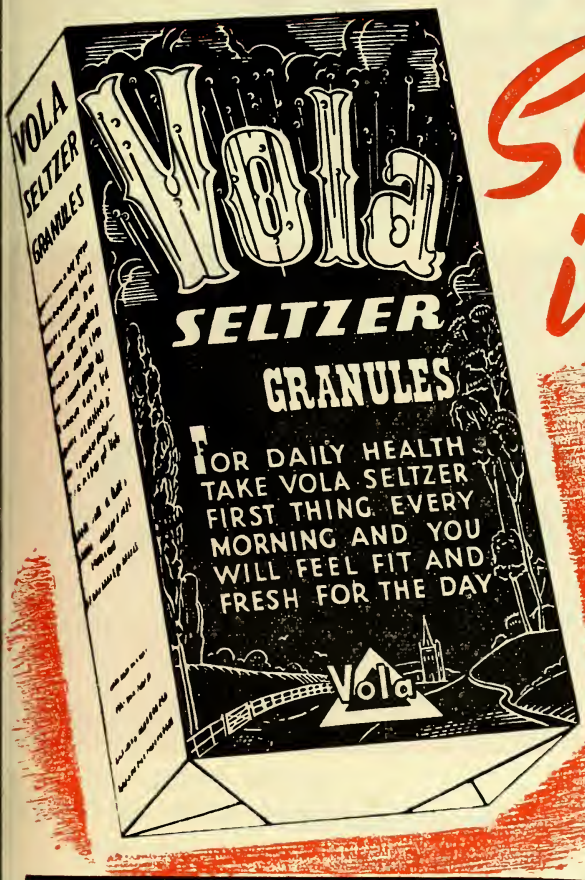

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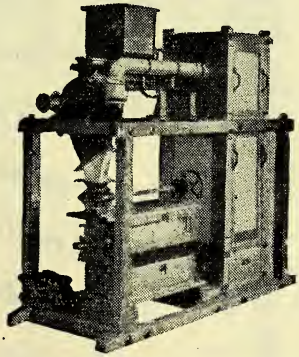

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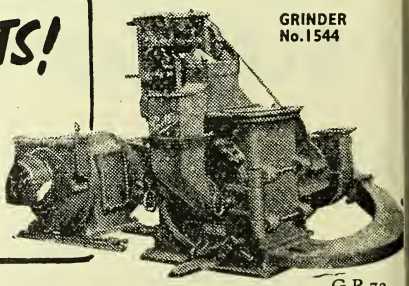

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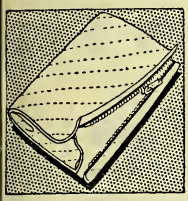
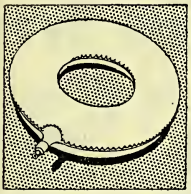

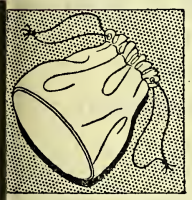
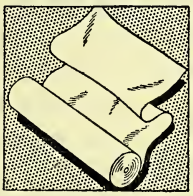

℞ zip pouchette
rubber air ring
baby bag
circular toilet bag
cot sheeting

PRESCRIPTION FOR A HOUSEWIFE

The LI-LO Products illustrated are all chosen from an extensive range of best selling Surgical sundries. These long established favourites, and the later additions to the LI-LO list, are rapidly gaining widespread success.

Write for full list and trade terms to :—
P. B. COW & CO., LTD.. ESTABLISHED 1836
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BE on your toes
-ready to meet the growing demand for the exclusive foot preparations now being advertised to the public under the name

Navano

Manufactured by
NAVANO PREPARATIONS LTD.
9, WESTMORLAND AVE., BLACKPOOL.

SURQUALET
TRADE MARK
THE NEW ELECTRIC STERILIZER

Makes the Sterilization and Assembly of Syringes Safe and Foolproof.

PRICE
£5 - 15 - 0

Working Capacity 1 Pint . . . . Boils in 10 Minutes. Overall Dimensions 8¾" High and 4½" Diameter of Base.

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SURGICAL EQUIPMENT SUPPLIES LTD
WESTFIELDS ROAD, LONDON, W.3
Name of Local Dealers on request

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SANITARY TOWELS
for
Perfect Reliability
NON CHAFING
HIGHLY ABSORBENT
In various sizes

WILFRED STRETCH & Co.
LIMITED
CASTLETON · ROCHDALE

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Wardonia Works Sheffield,

TOILET, PERFUMERY & PHARMACEUTICAL
— BOTTLES —
FOR THE
HOME TRADE
as well as for EXPORT
Obtainable from
CONSOLIDATED GLASS LIMITED
47 Essex Street, Strand, London, W.C.2
Telephone: CENTRAL 7311 (3 lines)

Surgical & Manicure Specialists Ltd
SHEFFIELD 3: ENGLAND
★ We manufacture all kinds of:-
SCISSORS · TWEEZERS · FORCEPS · NAIL & MANICURE FILES

In Stainless Steel—Nickel Plated and Chromium over Nickel

Our order books are full for some time ahead, and immediate deliveries cannot be promised. We shall, however, welcome your enquiries for forward deliveries. *(WHOLESALE ONLY SUPPLIED)*

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BUCKLEY BOWKER TABLET CO. LTD.
PARKFIELD STREET, LONDON, N.I
OVER 40 YEARS PRACTICAL EXPERIENCE
COMPRESSED TABLETS EVERY KIND (BULK or PACKED)
PRIVATE FORMULAS COMPOUNDED BY EXPERTS *(Strictest Secrecy Guaranteed)*
We have specialised for many years in— CONTRACEPTIVES (Special Formulas), TABLETS and JELLIES

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PRODUCTS

OPTREX: A scientific eye lotion, sterile, and carefully balanced in its ingredients, which is produced under conditions of clinical asepsis. Approved by doctors, oculists and opticians; can safely be used for all eyes, of all ages, at all times.

FAMEL SYRUP: For coughs, colds, influenza and bronchial troubles. Gets to the root of the cough because it contains soluble Lacto-creosote, which goes to the lungs and breathing passages and there destroys the germs.

★ **OPTULLE:** An open-mesh, sterile, non-adherent dressing, impregnated with a special petroleum compound. Mildly antiseptic and non-irritant. Greatly facilitates dressing and re-dressing of burns, septic wounds, indolent wounds, sloughs, varicose ulcers and fractures. Packed in tins, containing 24 pieces, also in continuous strips 5 yards long by 8 inches wide.

★ **SULPHONA-TULLE:** Of outstanding value for treatment of burns, and in other cases where sulphanilamide is indicated. An open-mesh dressing impregnated with an emulsion containing 10% Sulphanilamide. Supplied in a small light compact case. In continuous strips, 5 yards by 3½ inches, ready for instant use.

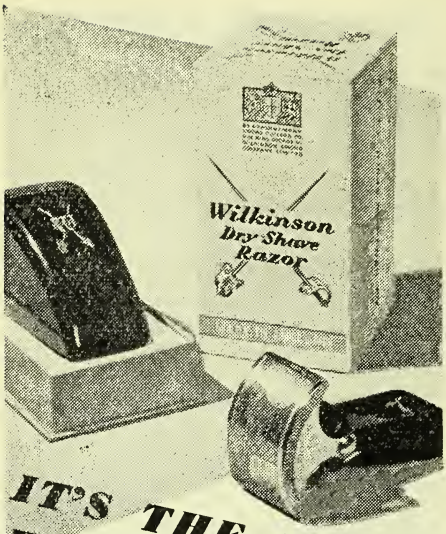
★ **SULPHONA-CREAM:** Sulphona-Cream is supplied in tubes. It can be used as an ointment or applied on a sterile spatula direct to a diseased or injured area, or spread on gauze, linen or oiled silk.

★ *Sole Distributors for Optulle, Sulphona-Tulle and Sulphona-Cream:*

CHAS. F. THACKRAY LTD., THE OLD MEDICAL SCHOOL PARK STREET, LEEDS, and 38 Welbeck Street, London, W.1

All these products are manufactured by:

PERIVALE **OPTREX Ltd.** MIDDLESEX



IT'S THE NEW WAY IN SHAVING

So simple—so quick, so completely answers the Modern Man's needs. Just pick up the Wilkinson Dry Shave Razor, apply it with a firm rocking movement, and you have a smooth, perfect shave. ***No lather, no new blades, no electricity.*** Made by the firm that have been forging swords for British royalty since 1772—that alone will speak for its quality and fine craftsmanship. Handsomely finished, attractively packed, backed by a National Advertising campaign . . . ORDER FROM YOUR WHOLESALER TO-DAY.

Price 40/- retail
(Inc. Purchase Tax)

Wilkinson Dry Shave Razor

(Est. 1772)

Wilkinson Sword Co. Ltd.
53 Pall Mall, London, S.W.1

Wholesale trade enquiries to :
Factory : Oakley Works, Acton, London, W.4

Make Money out of the Moth Menace

Sell **PROMOL MOTH RINGS**

RETAIL AT 7D PER PACKET

Wholesale 56/- Per Gross

PROMEDICO PRODUCTS LTD.
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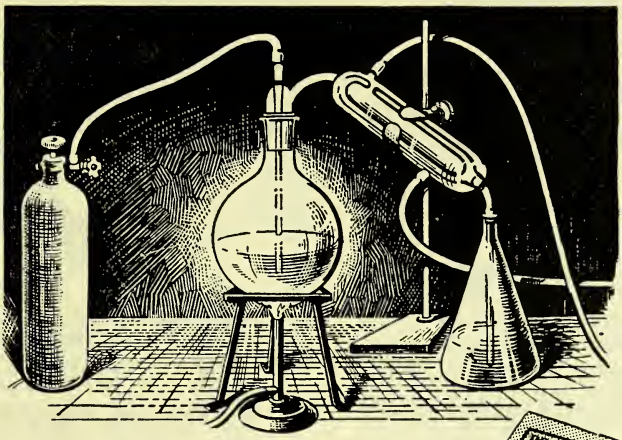
Foremost AMONG D.D.T. INSECTICIDES

-it's a SAN MEX PRODUCT

● Ever growing sales-figures prove the popularity of San-Mex-ide, the fragrant liquid Insecticide that always brings repeat orders. Its effectiveness and wide application keep it constantly in demand.

Trade enquiries to sole manufacturers:
The British Products San-Mex Co. Ltd.
68 Bath Street, Glasgow, C.1



The scientific accuracy of

RODINE

P.A.T.A.

is indisputable!

Every batch of Rodine Rat Poison is biologically and chemically tested before packing, so that you can always recommend it with complete confidence.

T. HARLEY LTD.

RODINE WORKS, PERTH, SCOTLAND

21 MILLION PEOPLE READ

pleasant to use

LET US SPRAY

...and kill instantly all

FLIES, MOTHS, GNATS, BUGS etc

OZOLINE·DDT

DELIGHTFUL FLORAL ODOUR·NON STAINING

From Chemists, Stores & Boots. LARGE BOTTLE 2/2

OZOLINE ANTI-MOTH 2/6 LARGE BOTTLE
KILLS MOTHS AND LARVÆ

OZONOL LABORATORIES (1930) LTD
NEW WHARF ROAD, LONDON, N.1.

The above is appearing in National Dailies, Provincial and Suburban Newspapers, and Selected Women's Publications.

OZOLINE-DDT

INSECT SPRAY
18/- per dozen 10 oz. bottles.
31/- per dozen 20 oz. tins.

ANTI-MOTH
20/- per dozen 10 oz. bottles, also in ½ and 1 gallon cans.

Sprayers available retailing at 3/-

A pre-war product improved by D D T. Produced by the makers of the famous Ozonol Air Purifiers.

OZONOL LABORATORIES (1930) LTD.
NEW WHARF ROAD • LONDON • N.1

- British made
- Distinctive in appearance
- Light in weight

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HIGH CLASS
SUN-GLASSES

Ask your wholesaler for details of Styles, Terms, etc.

Or Apply to
LEWIS (Import & Export) Ltd.
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Tel. Euston 8485

In the Public Eye . . .

We have continued to support the retailer by keeping JIFFY DYES always in the public eye. Now that supplies are growing better each day the value of firmly upholding "goodwill" must inevitably show itself. It pays to stock "goodwill" lines.

JIFFY DYES

Also **DRUMMER DYES**

Made by Wm. EDGE & SONS LTD. - BOLTO

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SOFTER...

SOFTEX

Inter-leaved

TOILET TISSUE

Extra thin, pure strong quality

Softex Toilet ROLLS also available

SWAN MILL PRODUCT, LONDON, W.1.

Death to Flies!

SCOTT'S

D.D.T

FLY and MOTH PAPERS

DESTROY FLIES ON CONTACT

3D EACH

THIS YEAR'S FASTEST SELLING LINE

Scott's D.D.T. Fly Papers will clear a room of flies, gnats, midges, etc., in no time. D.D.T. is absorbed through the pads of the flies' feet which causes death very quickly.

PRICE 24/- PER GROSS

TRADE & WHOLESALE ENQUIRIES INVITED

Sole Manufacturers:

J. & K. SCOTT,

MANUFACTURING CHEMISTS,

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DISTRIBUTORS: SWINNERTON'S

SHIRE OAK WAREHOUSE · STONNALL · WALSALL.

is forcing sales up

Advertisements for George Bell's Blood Salts for dogs, are appearing frequently in every national daily and all the important magazines, creating a demand amongst your customers. Stock and display this selling line. Samples and prices will be sent on request.

GEORGE BELL'S

Blood Salts

ORDER TODAY

Bell & Sons Ltd. 18 Silverdale Works, Liverpool 13

SCP10

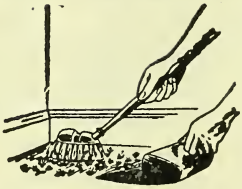
KENYA PYRETHRUM

for your Insecticide

Swift

Safe

Certain



You are invited to consult the European Agents

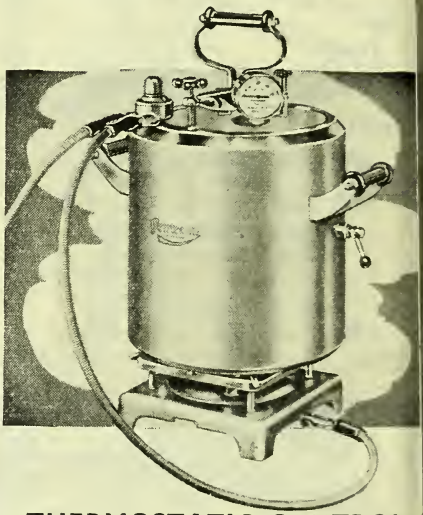
MITCHELL COTTS AND COMPANY LTD

WINCHESTER HOUSE, OLD BROAD ST, LONDON E.C.2

Representing the Kenya Farmers Association (Co-op) Ltd. Agents under the Sale of Pyrethrum Ordinance.

PENTECON · PENTECON · PENTECON · PENTEC

the advantages of the NEW PENTECON Autoclave



THERMOSTATIC CONTROL

The thermostat, independent of the pressure facto is the most accurate means of obtaining a consister temperature. Designed for use over a gas ring c portable burner, it is constantly in control, afte initial adjustment to suit the requirements.

Made from a special formula aluminium, the 'Pentecon' is light and handy to move about. The lid design provides a steam-tight joint, which cannot be opened under pressure.

To use saturated steam, allowing operation at lower pressure in relation to temperature, an Air Blow-off Valve is fitted. A Pressure Regulator Valve whistles when the required temperature is reached.

The temperature of a liquid in an open vessel within the 'Pentecon' can be checked by previously inserting a chemical thermometer through a gland in the lid.

CAPACITY—11" x 10½". Contents approx. 26 pints or seven 20 oz., or M.R.C. Standard Blood Bottles.

The 'Pentecon' is economical in price and operating costs. Price (excluding gas ring and flexible tubing, which are not supplied) . . . . . **£16 . 16 . 0**

A fully descriptive leaflet will be sent, post free, on request to Dept. 3, Pentecon, Ltd., Accrington. Please mention the name and address of your normal supplier

PENTECON LTD. ACCRINGTON

THESE THREE

'MERTON'

MINTS · BROMPTON TABLETS
SULPHUR TABLETS · COMMAND
A READY SALE EVERYWHERE

Retail at 6d. Good profits. Packed in new, attractive counter display outers containing 3 doz.

★

VERVA LTD

HIGH PATH, MERTON, LONDON, S.W.19

Watch for EDME Autumn Sun

EXTRACT OF MALT
WITH COD LIVER OIL

ADVERTISING CAMPAIGN THIS SEASON

FREE

n attractive Show Card Full Colours (only x 8½ inches) needs no rutting or fixing, a 1-lb. r in the centre of stand akes a rigid display.

For years EDME Malt and Oil has been distributed through thousands of Chemists all over the Country under their "own name" labels. NOW we are offering under the branded name of "AUTUMN SUN" a line of Malt and Oil of superlative quality, made from the finest Barley Malt and Cod Liver Oil obtainable.

Retail prices are right. Trade Discounts generous. *(On P.A.T.A. list)*

DME LTD., IMPERIAL HOUSE, REGENT STREET, W.1

hone: Regent 5563-4 'Grams: "EDME," Piccy London. Works: MISTLEY, ESSEX

Another Splendid Line to be distributed by

Splendor Ltd.

BAUME DALET

Made expressly for Bunions

The manufacturers of B.D. Baume Dalet announce that in future distribution to the trade will be in the hands of Splendor Ltd., London and Nottingham.

Supplies of this rapidly selling line can be obtained from your usual wholesalers or direct from

SPLENDOR LTD.

7c LOWER BELGRAVE ST., LONDON, S.W.I AND NOTTINGHAM

Regd. Trade Mark

FEEN-A-MINT

ORIGINAL

CHEWING GUM LAXATIVE

BACK AGAIN

This famous and popular chewing gum laxative is now available from your usual wholesaler, 7d. size only for the time being, including Purchase Tax. Your customers still prefer Feen-A-Mint. On P.A.T.A.. Attractive display cards supplied on request from White Laboratories, Ltd., 4, The Park, Mitcham, Surrey.

ASMIDAR SPECIALITIES

at present available

PIPERAZINE (Asmidar)
Effervescent Granules
A uric acid solvent—3 oz. size.

GLUTONINE (Asmidar)
Strychnine Gluconate — Gives prolonged action with decreased toxicity.
Boxes 8 x 1 c.c. ampoules 0·002, 0·0035, 0·005 gm.

SULPHAZOL CREAM (Asmidar)
Containing 5% Sulphathiazole in non-greasy base. Indicated in cases of Impetigo and coccal infections.
Size—¾ oz. Tubes.

ASMIDAR ANTI-RHEUMATIC OINTMENT
Non Greasy Non Staining Analgesic
Size—¾ oz. Tubes.

ICHTHAMMOL B.P.
With high organically combined sulphur content.

Literature and fuller information on these Preparations can be supplied on request.

ASMIDAR LTD.
14 DOUGLAS STREET, LONDON, S.W.I
(Telephone: Victoria 5556)

FENNINGS

FAMOUS FOR OVER 80 YEARS

P.A.T.A.

FENNINGS' CHILDREN'S POWDERS	1/3, 3/-, 5/-, 12/-
FENNINGS' LITTLE HEALERS	1/3 and 3/-. Also 6/- Carton of 12 Packets, retailing at 6d. each.
FENNINGS' FEVER MIXTURE	1/3 a bottle
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FENNINGS' SULPHUR POWDERS	1/3 and 3/- boxes

Please address orders and inquiries to your Wholesaler

PROPRIETORS: THE TRUSTEES OF ALFRED FENNINGS (DECEASED)
COWES, Isle of Wight

PEBOC LTD
MANUFACTURERS OF
VITAMIN D3

Enquiries to

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WATER STREET,
LIVERPOOL. 3.

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Stanlast
CASCARA SAGRADA
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SOUND STANLAST SELLERS

We invite your enquiries for any quantity of the above. Also Stanlast Crepe Bandages, Packed Pharmaceuticals and Tablets and Pills of every description.

STANNING PROPRIETARIES LTD
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A PROFITABLE Quick-selling LINE!

Clovettes ANTISEPTIC BREATH PURIFIERS 4d

Sweetens the breath. Invaluable for smokers, public speakers and in crowded places.

A GEETABS PRODUCT Clovettes ANTISEPTIC BREATH PURIFIERS Oleum Carophylli 1·5%, Oleum Cinnamomi 0·025%, Tetrabromo-Fluorescein Sodium, Lactosum Calcii Carbonas, Sweetenet base ad. 100. GEETABS LIMITED 4D London & Peterboro.

27/- per gross plus 9/- Tax. Selling Price 4d. per packet. Packed in display outers of ½ gross.

CLOVETTES Sweeten the Breath

Sole Distributors :— E.M.I.

EMMET DISTRIBUTING CO. LTD.

140 PARK LANE, LONDON, W.1 *Telephone: MAYFAIR 6756*

LINK UP with THIS BIG CAMPAIGN

Can you spot the GREYFACES?

Of course, they're everywhere—tired looking, depressed people, their energy sapped by queues, worry, strain, hurry. How about YOU? Don't be just so-so. VITAL FORCE won't let the pulsating tempo of modern, high-pressure living get you down!

THEY NEED A COURSE OF "Vital Force" THE BUSY PERSON'S TONIC TO PUT THEM IN THE PINK

42 TABLETS 3/9 - 14 Days' Course from all Chemists

Vigorous Press and Poster Advertising is putting **VITAL FORCE** over in a big way. Take a share of this profitable business. Let us send Display material and Showcards (in full colour), together with handsome terms. Retails at 3/9d.

MACLENNAN PRODUCTS LTD.

9, MONTRELL ROAD, LONDON, S.W.2.

Dr. JANSSEN'S BRAND TEA & TABLETS

These tonic remedies for figure fitness are in greater demand than ever. National advertising stimulates this demand and makes them ready sellers. Supplies are readily available. If you want to share in this demand write for details of prices and packings.

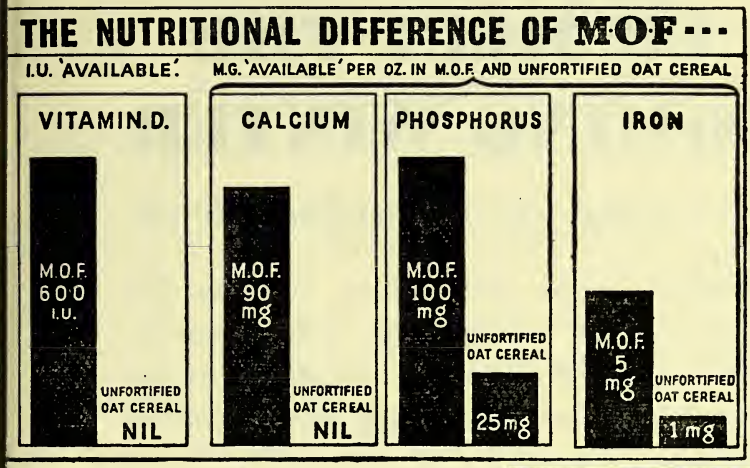
● Wholesale distributing agents are wanted in most areas throughout the country.

Dr Janssen's Herbal Tea Dr. Janssen Ltd

Dr. JANSSEN Ltd

52, BAKER St. LONDON, W.1.

This is why M·O·F sales



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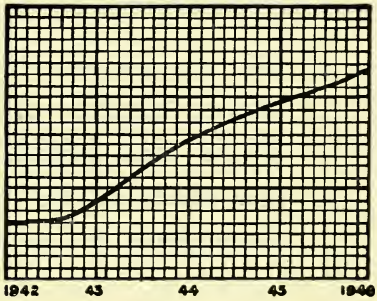


FOUR years ago, M.O.F. was practically unknown in England and Wales. Here is graphic evidence of the growing acceptance of the product. The real secret of the success of M.O.F. is that the product is in keeping with the modern trend in infant feeding. Doctors and chemists recommend it because they have faith in its composition and high nutritional value. As the present trend in infant feeding grows, so will the sales of M.O.F.

M·O·F

THE FORTIFIED INFANT CEREAL FOOD

MIDLOTHIAN OAT FOOD—PREPARED BY A. & R. SCOTT LTD., WEST MILLS, COLINTON, MIDLOTHIAN

TO MEET THE COMING WINTER

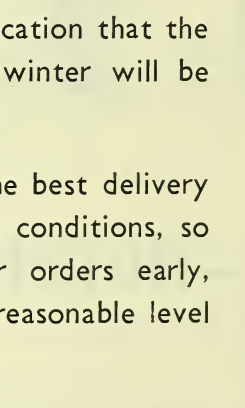
. . . *your co-operation please*

Serocalcin is now well known, both for the prevention and treatment of colds. From its past success there is every indication that the demand to meet the coming winter will be very great.

We are anxious to give you the best delivery service possible under existing conditions, so please look ahead, place your orders early, and maintain your stocks at a reasonable level throughout the season.

FOR THE PREVENTION AND TREATMENT OF COLDS

SEROCALCIN



Pharmacists are reminded that orders and enquiries for Serocalcin should now be addressed to J. C. Eno Limited, Watford, Herts. Telephone Watford 7761.

HARWOODS LABORATORIES LTD . WATFORD . HERTS

The CHEMIST AND DRUGGIST SUPPLEMENT

This Supplement is inserted in every Copy of The Chemist & Druggist

28 ESSEX STREET, LONDON, W.C.2.

SEPTEMBER 27 1947

CLASSIFIED ADVERTISEMENT TARIFF

BUSINESSES for DISPOSAL, BUSINESSES and AGENCIES WANTED, GOODS for SALE (value £5-£50), PARTNERSHIPS, PATENTS, PREMISES to LET, for SALE or WANTED, SITUATIONS OPEN	8/6 for 36 words or less, 3d. for each additional word.
LEGAL NOTICES, SALES BY AUCTION, TENDERS and all SPECIALLY SPACED ADVERTISEMENTS	2/6 per nonpariel line (12 lines=1 in. single column).
AGENCIES, EXPORT TRADE, MISCELLANEOUS SECTION (for Wholesalers, etc., for odd and second-hand lots value not more than £150)	17/6 for 36 words or less, 4d. for each additional word.
SITUATIONS WANTED	3/- for 18 words or less, 1d. for each additional word.

BOX OFFICE NUMBERS, 2/- extra (except Situations Wanted, which is 1/-).

All advertisements must be prepaid.

Advertisements can be accepted up to FIRST POST WEDNESDAY MORNING of week of issue.

Later advertisements will be included in next available issue.

In view of existing paper shortage advertisements should be sent as early as possible accompanied by remittance to

THE CHEMIST AND DRUGGIST, 28 ESSEX STREET, STRAND, LONDON, W.C.2.

SITUATIONS OPEN

for 36 words or less, 3d. for every additional word

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IRMINGHAM. Living accommodation available. Pharmacist required as branch manager. manent and progressive post. Superannuation eme in force. Apply with full particulars of erience and salary required to the Managing ector, Hedges (Chemists), Ltd., 10 Dale End, mingham.

RISTOL. Qualified or unqualified assistant (either sex) wanted. Chiefly for dispensing. y hours. Good remuneration. Full particulars Strode Cosh & Penfold, Ltd., Lower Union eet, Bristol, 1.

HEMISTS' assistants (ladies) wanted for clerical work in the N.H.I. checking bureau and stockcing departments. Apply National Pharmaceutical ion, 4/5 Queen Square, W.C.1.

ITY. Assistant required for cosmetics, toilets and packed medicines. Closed Saturday half-y. State experience and salary required. 1/883, & D. Office.

OVENTRY. Pharmacist (single preferred owing to housing) required chiefly for dispensing in od-sized pharmacy. Excellent prospects for right an owing to retirement in near future. Easy urs, comfortable post and good commencing lary. Full particulars first letter. 1/859, C. & D. fice.

DERBY Co-operative Provident Society, Ltd., requires pharmacist (lady or gentleman) as qualid assistant. Valuable opportunity for recently alified person seeking experience for positions responsibility. Attractive conditions. Large staff ployed. Apply by letter stating full particulars, Secretary, Albion Street, Derby.

ENFIELD. Qualified or unqualified assistant (either sex) mainly dispensing duties. No Sunday or half holiday duties. Apply with usual particulars. Wadsworth, 47 Windmill Hill, Enfield.

ENFIELD, North London. Pharmacist required to manage a good class family business in Enfield district. Scope for development. Good salary offered to competent man. No living accommodation. Apply 1/836, C. & D. Office.

EXPERIENCED man, preferably qualified, required for high-class West London pharmacy. Excellent prospects and salary. Apply with full particulars to 1/578, C. & D. Office.

FINSBURY PARK. Pharmacist required to manage middle-class brisk family business. Excellent salary to energetic, capable man. Attractive living accommodation available if required. Apply 1/839, C. & D. Office.

HOLLOWAY, London, N. Manager required for a busy main road pharmacy, must be energetic, experienced, used to N.H.I. Modernised and renovated living accommodation available. Good salary. Apply 1/838, C. & D. Office.

LADY assistant required for dispensing and counter. Modern self-contained flat available on premises. Apply by writing giving full particulars. S. H. Newman, Chemist, 119 Chiltern Drive (Nr. Berrylands Station), Surbiton.

LADY dispenser-Book-keeper, single, wanted by firm of doctors. Rooms provided. State age, experience and salary required to Dr. F. V. Squires, Wantage, Berks.

LEICESTERSHIRE. Manager required for good class store pharmacy in small town in Leicestershire. Regret no living accommodation, but excellent permanent employment offered with good prospects to suitable pharmacist. Apply 1/841, C. & D. Office.

MACKAVOY, Chemist, Oswestry, requires junior assistant. Please give full particulars in first communication. Market town business. Agricultural, general and licences. Very little N.H.I.

MANSFIELD. A young qualified man required for good-class pharmacy. Position permanent. Good salary and prospects. Apply giving full particulars to 1/875, C. & D. Office.

ORRIDGE & CO., Employment Agency, 184 Strand, W.C.2. Temple Bar 9212/3. Branches at Southampton and Birmingham. Enquiries invited from all employers seeking staff. Many pharmacists and unqualified assistants available for retail and wholesale. Representatives also requiring situations. Reasonable terms. Write to 184 Strand, W.C.2 for particulars.

PHARMACY branch manager required at once Permanency. Reasonable hours and good conditions. Apply by letter, giving full particulars, to Secretary, Dewsbury Pioneers' Industrial Society, Ltd., 43 Northgate, Dewsbury, Yorks.

POPLAR. Manager, qualified, required for busy pharmacy in Poplar. Good salary offered to energetic man with experience. Permanency with good prospects. Apply 1/837, C. & D. Office.

QUALIFIED branch manager required for shop with industrial N.H.I. and family trade. Leeds area. J.I.C. wages. 1/892, C. & D. Office.

QUALIFIED assistant (married) required early in October. Duties mainly dispensing. House provided. Permanent position to suitable applicant. Please state salary required. References, etc., Fred Hill, St. John's Pharmacy, 23 St. John's, Worcester.

QUALIFIED manager required immediately for branch pharmacy near Wrexham. Good prospects with old-established chemist's business. Please apply with full particulars, copies of references and salary required, to L. Rowland & Co., Ltd., Mitre Buildings, Brook Street, Wrexham, North Wales.

QUALIFIED assistant, male or female, required as dispensing pharmacist in a busy up-to-date pharmacy. Other dispensing staff kept. Position offers excellent opportunity for a keen energetic person. Good working conditions and reasonable hours. Please send full particulars re salary required, etc., and state when free, to J. R. Cave, Ltd., 52 Nevill Street, Southport.

STAFFORD & STONE Co-operative Society, Ltd. require the services of a qualified assistant chemist. Applications, stating wages required, to Manager & Secretary, 10 Salter Street, Stafford.

STOKE-ON-TRENT.—Qualified branch manager required for main road business in the Potteries. No Sunday or holiday duty other than occasional N.H.I. rota. Reply with particulars to Browns Chemists, Ltd., 27 Stoke Road, Stoke-on-Trent.

TIMOTHY WHITES & TAYLORS invite applications from pharmacists for vacancies as qualified managers and assistants for branches in all parts of the country. Good conditions of employment are offered, including a superannuation scheme, and there are excellent prospects for any pharmacist with ability and energy to make a successful career with the company. Convenient interviews will be arranged to suit applicants. Letters of application, stating district preferred (if any), should be addressed to: Retail Staff Manager (Drug), Timothy Whites & Taylors, 70 Vauxhall Bridge Road, London, S.W.1.

THE Royal Arsenal Co-operative Chemists, have vacancies for qualified and unqu pharmacists at their branches in South-Eas South-West London. Good opportunities for p tion and holidays with pay. Apply in writing ing age, experience and salary required to the Manager, Royal Arsenal Co-operative Che Ltd., 113 Powis Street, Woolwich, S.E.18.

TIMOTHY WHITES & TAYLORS have v cies for experienced unqualified assistants, or female, in Greater London and the Sou England. Permanent appointments offered; conditions. Apply by letter to: Retail Manager (Drug), 70 Vauxhall Bridge Road, Lo S.W.1.

TIMOTHY WHITES & TAYLORS, Ltd., h vacancy for an experienced unqualified ass for dispensing and counter duties at their bran Cliftonville. Good salary paid to first-class Convenient interviews arranged. Apply with particulars to Retail Staff Dept., Timothy Whi Taylors, Ltd., 70 Vauxhall Bridge Road, Lor S.W.1.

UNQUALIFIED assistant chiefly for dispen No Sunday or holiday duties. Apply usual particulars. L. W. Mills, 16 Badminton R Downend, Bristol.

UNQUALIFIED. Dispensing and counter or gent. Easy hours. Please apply with particulars to C. M. Holmes, Ltd., 97 Upper C ton Road, E.5. Phone AMH 2140.

UNQUALIFIED assistant required for pharmacy. No Saturday afternoon or Su duty. Apply with full particulars and salary quired. B. Hooper & Co., Ltd., 6 Railway P Fenchurch Street, E.C.3.

UNQUALIFIED assistant required, either Hours 9-6. Accommodation can be arra for single person. Apply stating age and experi to Breakspear, Marlow Road Corner, Maidenh Telephone Maidenhead 333.

WANTED. Fully qualified chemist bra manager, no half-day or Sunday duties, g wages and conditions. Apply The Co-opera Society, Ltd., Ashton-under-Lyne.

WEST END, London. Qualified assistant, l or gentleman, required for West End type business. Duties principally dispensing and to as at counter. Good salary. Apply 1/840, C. & Office.

WEST HAMPSTEAD. Required, capable yo lady or gentleman pharmacist for good c family business. An opportunity offered to pers wishing to settle down and give their perso interest. Possible accommodation for single pers available. Please apply with usual particulars Brown, 66 Fortune Green Road, West Hampste N.W.6. Tel. Ham. 3310.

YORK Co-operative Chemist's Society, Ltd., quire services of a qualified pharmacist to as assistant at the Society's central premises. Sup annuated permanent position with opportunity progress. No Sunday or half-day duties. Sho hours. Would suit newly qualified wishing to ga experience in busy Co-operative pharmacy. App stating full particulars to General Manager, 22 Ra way Street, York, endorsed "Pharmacy."

VETERINARY COUNTER PRACTICE

Indispensable to the rural pharmacist. Profitable to the town pharmacist. 10/6 Post Free.

THE CHEMIST & DRUGGIST,
28 Essex Street, London, W.C.2

DICTIONARY OF SYNONYMS

For the pharmacist *and* his staff. Awkward queries answered for 5/4 Post Free.

THE CHEMIST & DRUGGIST,
28 Essex Street, London, W.C.2

RETAIL (OVERSEAS)

ANGOON. Qualified assistant required by leading firm of wholesale and retail chemists. not over 26, unmarried, 3 years' engagement. ry Rs. 700 per month first year, Rs. 750 p.m. nd, Rs. 800 third year. Holiday home after e years, passage paid out and home. Free ical attention. Apply with particulars of ex- ence, qualifications and references to Frank Ross o. (London), Ltd., 4 Lloyd's Avenue, E.C.3.

UTH AFRICA. Required, young unmarried qualified assistant for retail chemists in a small in Cape Province, salary to commence £40 a th, plus cost-of-living bonus, now £3 18s. th. Also required for East London, single man, necessarily qualified, for manufacturing side of ly wholesale chemists with 9 or 10 years' good rience in the wholesale in England. Salary as e for qualified applicant and from £30-£35 th for unqualified man, both with cost-of-living wance. Passage paid. Apply with full particu- to 1/890, C. & D. Office.

WHOLESALE

BBOTT LABORATORIES, LTD., require first-class energetic representatives for London and e Counties, calling on medical practitioners, pitals, and retail pharmacists. Pharmaceutical ification preferred. Salary and expenses will be rous and commensurate with experience. Please full details to The Sales Manager, Abbott oratories, Ltd., Wadsworth Road, Perivale, dlesex.

GENTS required to call on chemists, stores, co-ops., stationers and fancy goods shops in on, Somerset, Wilts, Hants, Sussex, Bristol, olk, Derbyshire, Lincoln, Dumfries and Glasgow. se state district covered and lines carried. ol Wholesale, 23 Rosslyn Hill, London, N.W.3.

SSISTANT required for routine analysis of pharmaceuticals in the analytical laboratory of C. R. ker, Stagg & Morgan, Ltd., Emmott Street, don, E.1. Apply stating experience and wages ired.

SSISTANT sales manager required by leading firm with offices in West End. Knowledge of e market for crude drugs and chemicals essen- . 1/893, C. & D. Office.

HEMIST required with experience in manufacture of extracts from crude drugs. Apply giving particulars in confidence. 1/866, C. & D. ce.

HEMIST with B.Sc. qualification required for analytical control and research for East Lon- chemical works, 5-day week. 1/811, C. & D. ice.

VANS, GADD & CO., LTD., Smythen Street, Exeter, require wet counter and warehouse stants.

XPERIENCED representatives calling upon the majority of chemists in the following areas re- red immediately, to carry two popular estab- ed lines: Scotland, Lancs, Cheshire, Wales, Mid- ds and S.W. England. Excellent income from erous commission. Representatives should earn r £80 monthly from these two lines. Car ners preferred. Write full particulars to 1/886, & D. Office.

MPORTERS and wholesalers of bottles and jars require representatives calling on cosmetics nufacturers and first-class pharmacists, chemists, rdressers. Car essential. Commission and car wance. Territories : (1) Lancashire-Cheshire; Yorkshire-Northumberland-Durham; (3) Nor- k-Suffolk-Hunts-Cambs-Lincs-Rutland; (4) Scot- d; (5) Wales; (6) London. 1/857, C. & D. Office.

IMMEDIATE vacancy in well-equipped ampoule department of London manufacturing house. Five-day week; scope for progess. Please state age, qualification, experience and convenience for interview. Apply 1/846, C. & D. Office.

INTELLIGENT young man (not over 35) preferably with pharmaceutical or medical knowledge, required to train as medical representative for S.W. London, Surrey and Hampshire by manufacturers of high-class ethical preparations. Write giving full details of age, experience, etc., to Menley & James, Ltd., 123 Coldharbour Lane, S.E.5.

LONDON distributing house carrying good repeating lines have vacancies for conscientious commission agents calling on chemists and ladies' hairdressers. Application to H. J. Write Box 966, c/o George Murray (Advertising), Ltd., 184 Strand, London, W.C.2.

MANUFACTURING chemists in North London require woman pharmacist as second assistant in the dispensing and light manufacturing department. Salary according to age and experience. Write Box 552, Dorland, 18 Regent Street, S.W.1.

MANUFACTURING chemists (near Liverpool) have a vacancy for an assistant chemist in their laboratory for analytical and experimental work. Give full details of age, experience, qualifications and salary required to 1/824, C. & D. Office.

MIDLANDS. Smart and capable representative required, able to maintain and increase existing accounts, calling chemists and depart. stores. Excellent commission basis. 1/848, C. & D. Office.

MEDICAL representative wanted by small progressive company to call on doctors, chemists, hospitals and factories in North and East London. Excellent prospects for hard working man. State experience, area covered at present, and salary required. 1/797, C. & D. Office.

OLD-ESTABLISHED firm of manufacturing chemists specialising in ethical pharmaceutical preparations will have vacancies on their representational staff at the end of this year for 2 qualified pharmacists. One to live in the Bristol area and work South-West England and South Wales, and the other to live in the Midlands and work the Midlands and East Anglia. Preference given to men with established connection with retail chemists, and own car. Existing clientele will be given to them. Vacancies due to retirement. Consideration will be given only to applications giving complete details in confidential first letter to 1/860, C. & D. Office.

ORGANON LABORATORIES LIMITED require representatives (pharmacists) who, if married, are resident in or near (1) Birmingham, (2) Cambridge or Norwich, (3) South-East London with Kent. If single, applicants must be willing to reside in one of these areas. Should be under 35, able drive car and to represent the company on both technical and commercial matters to hospitals, doctors and pharmacists. Full technical training to successful applicants. Good salary, expenses and prospects. Car provided when possible. Please send full personal and business details with photo if possible to General Sales Manager, Organon Laboratories Limited, Brettenham House, Lancaster Place, W.C.2.

PUBLICITY. Copywriter required for ethical medical, veterinary and pharmaceutical advertising material. Previous publicity and sales experience useful but not essential provided there is a genuine flair for copywriting. Pharmacist with some experience as a medical representative would be particularly suitable. Initial salary £500-£600 according to qualifications and experience. Apply initially in writing, quoting reference number 690, to Personnel Officer, May & Baker, Ltd., Dagenham, Essex.

QUALIFIED chemist with chemical or pharmaceutical qualifications required for the analytical control laboratory of a toilet and perfumery factory in North-West London. The position is a permanent one. Commencing salary £450. Write giving full details to 1/874, C. & D. Office.

QUALIFIED chemist with chemical or pharmaceutical qualifications required for the manufacturing department of a West London firm of manufacturing chemists. The position is a permanent one. Commencing salary £450. Write giving full details to 1/873, C. & D. Office.

RESEARCH, analytical and developmental chemists required by pharmaceutical firm, South of England. Apply giving details of experience and salary required. 1/880, C. & D. Office.

REPRESENTATIVES. An excellent opportunity occurs for representatives calling on chemists to carry high-class medical product on commission basis. Territories available at the moment are London, Home Counties and the Midlands. Only those with good connections need apply, all such applications being treated in the strictest confidence, to Ade Pharmaceuticals, 2 Fore Street, St. Marychurch, Torquay.

REPRESENTATIVE required by manufacturing chemist to call on retail and wholesale chemists for the following areas: North Wales, Cheshire, Stafford, Shropshire and part of Yorkshire. Must have live connection. Salary, comm. and expenses. Write giving full details. Box S. 384, Erwoods, Ltd., 211 Piccadilly, London, W.1.

REPRESENTATIVES required by manufacturers of high-class quick selling lines. Must have good connections to chemists. All areas. Generous commission. 1/798, C. & D. Office.

REPRESENTATIVE wanted, calling on chemists in Midlands, Potteries, S. Wales, and Yorkshire. Commission basis. Established lines. The Red Band Chemical Co., Ltd., 16 Young Street, Edinburgh.

REPRESENTATIVES or agents with sound connection in chemist and hairdressing trade required to represent company with nationally advertised well-known products of high repute. Permanency, salary, commission. Apply 1/822, C. & D. Office.

REQUIRED, good speciality traveller to handle smart range of pharmaceutical products, must have experience in calling on grocery trade and be willing to travel in any part of the country. One living in the Midlands or Northern Counties preferred. Remuneration by salary and expenses. Also a representative required for a London territory. Apply with fullest particulars to Kempac Ltd., Bradford Road, Batley.

SHARP & DOHME, Ltd., require the services of keen and ambitious pharmacists to fill positions on their representative staff. Territories vacant include the Midlands and London. Applications are invited from men who are interested and capable of conducting medical propaganda at the highest level and in selling ethical products to chemists. Remuneration by salary, commission and expenses. Please submit details of experience and availability for interview, enclosing photograph if possible, to: Sales Manager, Sharp & Dohme, Ltd., Hoddesdon, Herts.

THE BRITISH DRUG HOUSES, LTD., require chemists of B.Sc. or equivalent qualifications in production, research and analytical departments —experience desirable but not essential. Laboratory technicians also required with Inter. B.Sc. qualifications. Please forward record of qualifications and past experience to the Personnel Manager (Ref. P), Graham Street, City Road, N.1.

WANTED. Liquorice pellet maker, preferably one who can also make pastilles and gums, to take full control and commence small factory. 1/889, C. & D. Office.

WHOLESALE representative required by well known firm of insecticidal manufacturers to maintain and extend wholesale only account amongst wholesale chemists, grocers, hardware factors in the London area. Good salary and commission given. Car provided. Only those with experience in the trade and with an existing connection should apply. 1/867, C. & D. Office.

WELL-ESTABLISHED London exporting house have vacancy for depart. manager able to work on own initiative to take charge of essential oils, drugs and fine chemicals. Previous experience essential. Good prospects for energetic and ambitious worker. Write full particulars in confidence to 1/825, C. & D. Office.

WHOLESALE (OVERSEAS)

AUSTRALIA. Well-known proprietary medicine house with branch in Melbourne require pharmacist (M.P.S. or Ph.C.), analytical experience an advantage. Age 30/35. Excellent opportunity for single ex-Service man. Apply in first instance to 1/830, C. & D. Office.

PLANT chemists urgently required for process plant operations by large company operating in the Middle East. Applicants need not be graduates but should have had a chemical training up to Inter B.Sc. or National Certificate Standard with experience of shift work in either a gas, coke oven or chemical works. Age not over 30. Salary in sterling between £540 and £600 per annum plus generous allowances in local currency, with free furnished bachelor accommodation, passages out and home, medical attention, also kit allowance and provident fund benefits. Apply stating age, qualifications and experience, etc., to Dept. F.22, 162/461, C. & D. Office.

SITUATIONS WANTED

3/- for 18 words or less, 1d. for every additional word

RETAIL (HOME)

APPRENTICESHIP. Wanted by youth nearly seventeen, holding higher school certificate in Physics, Chemistry and Biology. Near Dudley, Worcestershire, or alternatively anywhere if suitable living accommodation available. Firm holding T.S.A. licence preferred. 1/882, C. & D. Office.

ASSISTANT. Competent salesman. Dispenser, unqualified, elderly. Accustomed to manage. Status., c.o. Miss Quinn, 2 Laxey Road, Green Street Green, Farnborough, Kent.

ASSISTANT, competent, dispenser salesman, single, active, elderly. Accustomed to manage, unqualified status. c/o Miss Quinn, 2 Laxey Road, Green Street Green, Farnborough, Kent.

ASSISTANT chemist with 4 years' analytical and organic syntheses experience, seeks position in London. Inter B.Sc. Fluent German and French. 1/865, C. & D. Office.

DISPENSER, unqualified (33), 15 years' experience, available evenings after 5 p.m. and all day Saturdays. Epsom, Leatherhead or Guildford area preferred. 1/887, C. & D. Office.

DISPENSER (lady), Hall certificate, experienced hospital, general practice and shop, requires situation. Hospital preferred. 1/869, C. & D. Office.

WOMAN, experienced dispenser, Hall certificate, 3 years' hospital work, seeks post in hospital, whole or part time in or near London. 1/871, C. & D. Office.

LOCUMS SEEKING ENGAGEMENTS

LADY dispenser (Hall); experienced—doctor, chemist, hospital—free for engagements any time. Cameron-Waller, 50 Camden Hill Road, Upper Norwood, S.E.19.

WHOLESALE

EXPORT. Man familiar with pharmaceutical advertising throughout Commonwealth, Continent, United States, Argentine, India and Far East now available. 1/861, C. & D. Office.

KEEN, energetic young man (32) desires progressive position with firm of repute. Excellent connections doctors and dentists Lancs and Cheshire areas. Sale or propaganda. 1/870, C. & D. Office.

REPRESENTATIVE for well-known firm of manufacturing chemists with established connection would be pleased to introduce any lines of interest to chemists. Own car. Commission basis. 1/896, C. & D. Office.

REPRESENTATIVE with established connection North-East Counties, Westmorland, Cumberland, Scottish Lowlands, calling on wholesale and retail chemists, Co-ops, departmental stores, etc., requires additional lines. Commission basis. Car owner. Write 1/884, C. & D. Office.

WOMAN pharmacist, 30, seeks representative position with reputable firm, preferably first-class cosmetics. Midlands including Birmingham. Own car. 1/872, C. & D. Office.

APPOINTMENTS

CITY OF BRADFORD
ST. LUKE'S HOSPITAL

Applications are invited for the post of Female Student Pharmacist.

Candidates for this post should hold one of the following certificates: B.Pharmacy; Inter. B.Pharmacy; Inter. Pharmacy examination, Pharmaceutical Society.

The salary, if the Student Pharmacist has obtained the degree of B.Pharm. before taking her two years' practical training in hospital, will be in accordance with the recommendations of the Joint Negotiating Committee (Hospital Staffs). Otherwise the salary will be in accordance with the General Division of the National Scheme of Conditions of Service, i.e., £52/£240 per annum, plus bonus, according to age.

This appointment is subject to the Local Government Superannuation Act, 1937, and the person appointed will be required to pass a medical examination.

Applications giving full particulars should be forwarded to the Medical Superintendent, St. Luke's Hospital, as soon as possible.

W. H. LEATHEM,
Town Clerk (6863).

Town Hall, Bradford.
September 17, 1947.

TWO ASSISTANT PHARMACISTS required by MIDDLESEX COUNTY COUNCIL for NORTH MIDDLESEX COUNTY HOSPITAL, Edmonton, N.18. Must be registered. Salary £370 x (4) £15 and (1) £20 to £450 p.a., incl. Previous experience as assistant pharmacist may be considered in determining commencing salary. Whole-time, established, pensionable subject to medical exam. Application, stating age, qualifications, experience, with copies of testimonials, to Medical Director, quoting C 686 CD) immediately.

Chief Pharmacist required. Salary £485 per annum rising by annual increments of £20 to £585.

Applicants should have had not less than three years' Hospital experience after qualifying. The appointment will be subject to the provisions of the Asylum Officers' Superannuation Act, 1909, after a short probationary period.

An additional £30 per annum may be given to the successful candidate if capable of undertaking photography within the Hospital.

Applications endorsed "Appointment of Chief Pharmacist" on forms to be obtained from the undersigned, must be forwarded to him so as to arrive not later than 10 a.m. Saturday, 11th October, 1947.

Medical Superintendent,
County Mental Hospital,
PRESTWICH, Manchester.

CORPORATION OF WILLESDEN

APPOINTMENT OF PHARMACIST.

The Council invite applications for the following appointment:—

ASSISTANT PHARMACIST. The salary will be in accordance with the Joint Negotiating Committee at the rate of £370 per annum, rising by four annual increments of £15 and one increment of £20 to a maximum of £450.

The work will be carried out at the hospitals and health centres, and previous experience will be taken into consideration in determining the commencing salary.

The appointment is terminable by one month's notice on either side and is subject to the provisions of the Local Government Superannuation Act, 1937, to the regulations governing officers of the Council and to a satisfactory medical examination.

Off duty is granted one Saturday morning in every three.

The candidates appointed will work under the direction of the Chief Pharmacist.

Forms of application may be obtained from the Medical Officer of Health, Health Department, 54 Winchester Avenue, Kilburn, N.W.6, to whom they must be returned marked "Pharmacist" not later than October 10, 1947.

Canvassing will disqualify and applicants must disclose any relationship with any member of the authority.

R. S. FORSTER,
Town Clerk.

Town Hall, Dyne Road,
Kilburn, N.W.6.

MIDDLESEX COUNTY COUNCIL

ASSISTANT PHARMACIST for HAREFIELD COUNTY HOSPITAL, Harefield, Middlesex (Registered essential), J.N.C. (Hosp. Staffs) salary £370 inclusive; annual increments up to £450 p.a. considered. Similar experience may determine commencing salary. Recently qualified pharmacists eligible. Whole-time, unestablished, possible establishment; subject to medical examination. Application stating age, quals., exper., with copies of up to 3 recent testimonials to MEDICAL DIRECTOR at Hospital, IMMEDIATELY. No forms (quote C 292 C D).

C. W. Radcliffe,
Clerk of the County Council.

Middlesex Guildhall, S.W.1.

KENT COUNTY COUNCIL

ASSISTANT PHARMACIST

Applications are invited for the following appointment at the County Pharmacy, County Hall, Maidstone.

ASSISTANT PHARMACIST (M.P.S. or Ph.C.) (Male). Hospital experience preferred. Salary £370 a year by four increments of £15 and one of £20 to £450 a year. Superannuation. Medical examination necessary.

Applications, stating age, qualifications, experience and the names and addresses of two responsible persons to whom reference may be made as to professional ability, to be sent to the County Medical Officer, County Hall, Maidstone, as soon as possible.

W. L. PLATTS,
Clerk of the County Council.

County Hall,
Maidstone.
August 28, 1947.

GOVERNMENT OF SOUTHERN RHODESIA

PUBLIC HEALTH DEPARTMENT
VACANCIES: DISPENSERS

Applications from qualified chemists and druggists are invited by the Government of Southern Rhodesia for appointment as a DISPENSER in the Public Health Department.

The salary scale for women is £352 x £22 to £440 x £55 to £495 x £27 10s. to £715 per annum with efficiency barriers at the £396 and £440 per annum steps, and for men is £440 x £55 to £495 x £27 10s. to £660 x £77 to £737 x £33 to £935 per annum, with efficiency barriers at the £550 and £660 per annum steps. The commencing salary may be higher than the minimum of the scales in recognition of approved previous experience. A cost of living allowance, which is at present at the rate of ten per cent. of basic salary, will also be paid in terms of regulations.

The successful applicant will be required to pass a medical examination by a Southern Rhodesia Government or other duly appointed medical officer, and to register as a Chemist and Druggist with the Medical Council of Southern Rhodesia. Travelling fare from place of appointment to Southern Rhodesia will be provided, and, if applicable, in the case of a man half the cost of fares for his wife and dependant children under the age of eighteen years. If a male is appointed, he may also be required to perform the duties of a Hospital Secretary which include clerical work.

Application forms may be obtained from the Secretary, Office of the High Commissioner for Southern Rhodesia, 429 Strand, London, W.C.2, and completed forms should be returned to this office not later than 31st October, 1947.

Canvassing will disqualify applicants.

SURREY COUNTY COUNCIL

ASSISTANT PHARMACIST required at EPSOM COUNTY HOSPITAL, Dorking Road, Epsom. Commencing salary on grade £370 x £15—£430 x £20—£450 p.a. inclusive. Applications in writing, stating age, qualifications and experience, with copies of not more than three recent testimonials, should be sent to the Medical Superintendent of the Hospital.

THE LONDON CLINIC, 149 HARLEY STREET, LONDON, W.1.

ASSISTANT PHARMACIST required. Hospital experience not essential. Salary in accordance with the J.N.C. Scale. Applications, stating age and experience, should be sent to the CHIEF PHARMACIST.

THE WEST RIDING OF YORKSHIRE HOSPITALS BOARD

WHARNCLIFFE EMERGENCY HOSPITAL AND WADSLEY MENTAL HOSPITAL

APPOINTMENT OF ASSISTANT PHARMACIST

APPLICATIONS are invited from suitably qualified persons for the position of ASSISTANT PHARMACIST in the Joint Pharmaceutical Department of the above hospitals.

Salary according to experience and within the scale recommended by the Joint Negotiating Committee (Hospital Staffs), i.e., £370 rising by four increments of £15 and a fifth increment of £20 to a maximum of £450 per annum inclusive.

Written applications, giving full details of qualifications, experience, etc., should be addressed as soon as possible to the Medical Superintendent, WADSLEY MENTAL HOSPITAL, together with the names and addresses of three persons to whom reference may be made.

G. L. BANNER,
Clerk of the Board.

Board Offices, Wakefield.
September 1947.

AGENCIES

17/6 for 36 words or less, 4d. for every additional word

AGENTS wanted by firm of surgical rubber goods. Gentlemen with good connections in the retail trade. Apply stating territory to 1/862, C. & D. Office.

ENERGETIC agent required in Eire to handle an additional insecticide line of undisputed home sales success. State usual commissions. Great scope offered to young agency especially. Other lines shortly to follow. 1/863, C. & D. Office.

LINIMENT / EMBROCATION, Well - known manufacturing chemists are seeking additional lines. Specially interested in buying established business in liniment field. Approach first instance through Bland, Fielden & Co., Chartered Accountants, Copthall House, Copthall Avenue, London, E.C.2.

LONDON produce merchants with good connections in Eire require Dublin agent well introduced to wholesale chemists, paint, varnish, polish manufacturers. Write 1/876, C. & D. Office.

AGENCIES WANTED

8/6 for 36 words or less, 3d. for every additional word

MANUFACTURERS' agent settling in Eire requires suitable lines for a good wholesale connection. 1/885, C. & D. Office.

PHARMACEUTICAL chemist desirous of obtaining good class agencies of pharmaceutical and chemists' sundry lines for Northern Ireland. (Qualified 1933.) Car owner. 1/895, C. & D. Office.

BUSINESS OPPORTUNITIES

6 for 36 words or less, 4d. for every additional word

ANUFACTURING chemists could accept addi- tional products for bottling and/or marketing additional lines in the food, medicinal or cos- ic trades. 1/847, C. & D. Office.

ANUFACTURING druggists require a firm in London to bottle our own product. Bottles oz. size) to be supplied by contractor. 1/877, & D. Office.

AP substitute. A research chemist has been successful in producing a soap substitute in solid which, when made up, is indistinguishable ordinary toilet soap itself. Prepared to dispose ormula and process of manufacture outside the ted Kingdom. Write full details of offer to 887, Reynells, 44 Chancery Lane, W.C.2.

OUTH AFRICA. Principal of manufacturing chemists at present in England would be pleased nitiate discussions re possible licences for manu- ure and/or distribution of proven products in Union. 1/813, C. & D. Office.

BUSINESSES WANTED

for 36 words or less, 3d. for every additional word

RUG and surgical stores wanted by ex-Service- man. Capital available for purchase of pro- y if necessary. B. W., 11 Frognal Court, N.W.3. ne TEM 2838.

RIVATE pharmacist requires sound business up to about £5,000 turnover. Country town or t. Southern counties preferred. Living accom- lation essential. Strict confidence observed. 97, C. & D. Office.

BUSINESSES FOR DISPOSAL

for 36 words or less, 3d. for every additional word

HEMISTS and drug stores. E.C. district. Large double-fronted shop in busy position. . £2,500 p.a. excl. N.H.I. Low rent. Price 500 incl. stock about £1,000. Immediate in- tion advised. Ellis & Co., Swiss Cottage Station, V.6. PRI 0011.

NGLAND. Wholesale distributing business with rapidly increasing turnover, this year approx- tes £50,000. Scope. Total price to include y stock and freehold £30,000. Apply with ker's reference to 1/891, C. & D. Office.

MISCELLANEOUS SALES

6 for 36 words or less, 4d. for every additional word

OTTLES and jars reclaimed to dispose of; mixed perfumery, cylindricals, coloured and white from 4 to 20-oz., medicals, plain and marked . and other sizes. Cream jars assorted types, et bottles various sizes. Further particulars of surplus on request to L.L.N. & Co., Ltd., 265 aby Road, Hull.

HEAPER than cardboard boxes. Small tins. (Government surplus). 1 in. square, $\frac{3}{8}$ in. deep. lids. Suitable packing pills, etc. 10s. per usand. Cash with order to Porter & Partner, ., 32 Clumber St., Nottingham.

OR SALE, 140 gross of 1-lb. oval malt jars, without caps. Offers. 1/894, C. & D. Office.

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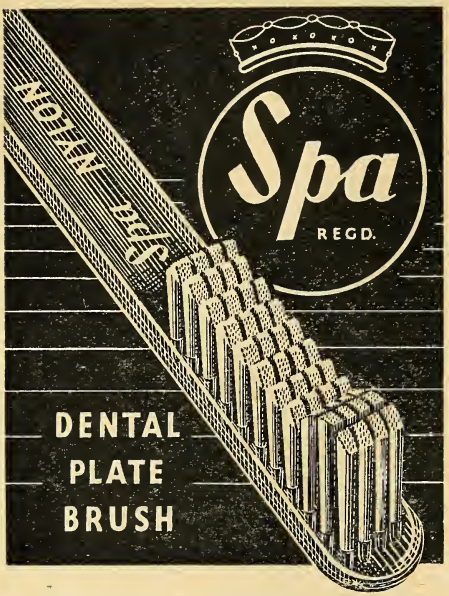

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